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10 Seq ID NO: 141 DNA sequence
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 Coding sequence: 261..2861

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 25 GTGCAGATTG CAGTTCTGAT TCATTGAAAT AAAAGGAAC TTGG

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 40 FLECNILMII VVLTFVFGAN VEKLICSEPT SKELFRVLDI PYLLNEDWEY YLSGKLENKS 540
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Protein Accession #: AAH12089.1

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	SKMKLTFEQU	YSDCKNRTG	YGTLLHLQNSF	NISEHLNINE	HTGSISSELE	SLKVNLIIFL	600
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	GAAACTGCTA	GCACCAACAGC	AAATACACCT	TCTTCCCAA	CAGCTACTTC	ACCTGCTCCC	240
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70	ACACATAGTT	CCTCCACAAT	TCTTATACCT	ACTGCTGCAG	ACAGTGAGTC	AACCACAAT	360
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75	CATAATACAA	GTTTCTTGCT	GTGTTAGAA	GGGTATTACT	ACAACCTCTC	TACATGTAG	660
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	AACGCACAGC	ACCAAGCAATG	CTTAATAAAG	AAGAGTGGTG	GGGCCCTCGA	GTGTGCGTGC	1200
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 TTTTTTTTTT TTTTAAATGT GAGAAGCAGA ATGTGCTTCT AGAAACTGGT TTTAAAGAGA 3540
 TGAGCTGAGA AAGAAATGTG GAATGGAGTA TATTTGAGGA GACAAAAACA TAACCTCACT 3600
 TTTGAACAGA AATCACTCTA GCTTGCCAGC ATGGGATGTA AACCAAGAGA GTAGAAATAT 3660
 ACCCATCTTA TTTTAAAGTT GGTTTATGGC ATCGCTCATA TATGTAAAG CACTACAAAC 3720
 30 TCTTTAAAGA AAATTTGGGA ACTACAGAGA AGTCAAAAGA AAAAAAAGT AACCCATATT 3780
 TCTATTGCC AGGTATAATC CTTGTTAATA TTTTGGTTG GTCTCCTCTT TTTTCCCCC 3840
 AATATAGTT TAAATAAATG ATGCTTTTCA GAGTTGACAT TTATCCTGTA GCTTGAATGG 3900
 CATGTAATG CCAGTTGTAT ATTTTTCAT GAAGTGTAGG TTTGGAATAC ACTAGAGTTA 3960
 GCTATATGCT TGAATGCTGA TCACTGGATT CTGAGACTGA CTACTGAGTC TACCTTTTAA 4020
 35 ATCAAGCCTA ACATGAATGG GCTCCAAAAA GTAATGAATG TAATGTACT TTTTGTATG 4080
 CCTCTCACT TGGCTGGTG AGTCATCATA AATAGCTGTT AAATATGTGA CTTTACAGAT 4140
 TTTGATATGT TCGATTGTA AAAAATGAAT AGTTTATTTT ATTAATGTAT GGCAGTCAA 4200
 GAATCTCCCT CC

40 Seq ID NO: 152 Protein sequence
 Protein Accession #: Eos sequence

45 1 11 21 31 41 51
 MGAPHWWDQL QAGSSEVDWC EDNYTIVPAI AEFYNTISNV LFFILPPICM CLFRQYATCF 60
 NSGIYLIWTL LVVVIGISVY FHATLSFLQG MLDELAVLWV LMCALAMWFP RRYLPKIFRN 120
 DRGRFVKVVS VLSAATVCLA FVKPAINNIS LMTLGVPCTA LLIAELKRCN NMRVFKLGLF 180
 SGLMWTALF CWISDRAFCE LLSPNFPYLL HCMWHILICL AAYLGCVCPA YFDAASEIPE 240
 QGPVIKFWPN EKWAFIGVPY VSLLCANIKS SVKIT

50 Seq ID NO: 153 DNA sequence
 Nucleic Acid Accession #: NM_001432.1
 Coding sequence: 167..676

55 1 11 21 31 41 51
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 TCCGAGCCGC CCGTCCGCCA AGCCCCAGCG CCGCTCCCA TCGCCGATGA CCGCGGGGAG 180
 GAGGATGGAG ATGCTCTGTG CCGGCAGGGT CCGTCTGCTG CTGCTCTGCC TGGTTTCCA 240
 60 TCTTCTACAG GCAGTCTCTA GTACAACGTG GATTCCATCA TGTATCCCAG GAGAGTCCAG 300
 TGATAACCTC ACAGCTTTAG TTCAGACAGA AGACAATCCA CGTGTGGCTC AAGTGTCAAT 360
 AACAAAGTGT AGCTCTGACA TGAATGGCTA TTGTTTGCAT GACAGTGA TCTATCTGCT 420
 GGACATGAGT CAAACTACT GCAGGTGTGA AGTGGGTTAT ACTGGTGTCC GATGTGAACA 480
 65 CTCTTTTTTA ACGTCCACC AACCTTTAAG CAAAGAGTAT GTGGCTTTGA CCGTGATTCT 540
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 GTTCCGCAA GTCTGAATGG CGCCATCAA CTTATGGGCA GGGATAACAG TGTGCTGCT 720
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 70 CACTGTATTT TAATGTACTT GAAAAATGTT TTTATTTTGG TTTTATTTT GACAGACTAT 840
 TTGCTAATGT ATAATGTGCA GAAAAATTTT AATATCAAAA GAAAAATGAT ATTTTATAC 900
 AAGTAATTTT CTGAGCTAAA TGCTTCATTG AAAGCTTCAA AGTTTATATG CCGTGTGCAC 960
 AGTGCTTAGA AGTAAGCAAT TCCCAGGTCA TAGCTCAAGA ATTGTTAGCA AATGACAGAT 1020
 TTCTGTAAAG CTATATATAT AGTCAATCG ATTTAGTAAG TATGTTTTT ATGTTCTCTA 1080
 AATCAGTGAT AATTTGTTTG ACTGTACCAT GGTGTGATAT GTAGTTGGCA CCATGGTATC 1140
 75 ATATTACAAC ATTTATGTGA GGTAAATATT TGGGAGAAGC AAATATAGGT CCGTGTGTTA 1200
 ACATAACACA TTGGAACACA GCTAACCTTG GSGAGTCTAT GGTCTCTTCA CTCAGTCTC 1260
 AGCTATAATT CTGTTATATG AGGGGCGAGT GACAGTTCCT TATGCCAAT CACGACTCCT 1320
 ACAGGTACTA GTCACTCATC TACCAGATTC TGCCATGTA AAATGAATTG AAAAACCAAT 1380
 80 TTCGTAAATC TTTTATTTAA GTAGTGGGCA TTTCATAGCT TCACAATGTT CTTTCTTTGT 1440
 ATATTACAAC ATTTATGTGA GGTAAATATT GCTCAACAGA CAATTAGAAA AAAGTCCACA 1500
 CTGGAAGCCT AAATTTGTGC TTTTAAAGAA TATTTTAGA CTATTTCTT TATAGGGGC 1560
 TTTGCTGAAT TCTAACATTA AATCACAGCC CAAAATTGTA TGGACTAAT ATTTATTTAA 1620
 AATATATGAA GACAATAATT CTACATGTTG TCTTAAGATG GAAATACAGT TATTTCACT 1680
 TTTATTCAAG GAAGTTTAA CTTTAATACA GCTCAGTAAA TGGCTTCTTC TAGAATGTAA 1740

5	AGTTATGTAT	TAAAGTTGT	ATCTTGACAC	AGGAAATGGG	AAAAAAGTTA	AAAAATTAATA	1800
	TGGTGATATT	TTCCAAATGA	AAAATCTCAA	TTGAAAGCTT	TTAAATGTGA	GAAACTTAAA	1860
	CACACCTTCC	TGTGGAGGCT	GAGATGAAAA	CTAGGGCTCA	TTTTCTGAC	ATTGTATTAT	1920
	TTTTTGGAG	AGACAAAGAT	TTCTTCTGCA	CTCTGAGCCC	ATAGGTCTCA	GAGAGTTAAT	1980
	AGGAGTATT	TTGGGCTATT	GCATAAGGAG	CCACTGCTGC	CACCACITTT	GGATTTTATG	2040
	GGAGGCTCCT	TCATCGAATG	CTAAACCTTT	GAGTAGAGTC	TCCCTGGATC	ACATACCAGG	2100
	TCAGGGAGGA	TCGTCTCTTC	CTCTACGTTT	ATCCTGGCAT	GTGCTAGGGT	AAACGAAGGC	2160
	ATAATAAGCC	ATGGCTGACC	TCTGGAGCAC	CAGGTGCCAG	GACTTGTCTC	CATGTGTATC	2220
10	CATGCATTAT	ATACCTCGGT	GCAATCACAC	GACTGTCTAT	TAAAGTCTCG	GCCCTGGCCC	2280
	TTACTATTAG	GAAAATAAAC	AGACAAAAAC	AAGTAAATAT	ATATGGTCTC	ATACATATTG	2340
	TATATATATT	CATATAACAA	CATGTATGTA	TACATGACCT	TAATGGATCA	TAGAATTGCA	2400
	GTCATTGGT	GCTCTGTAA	CCATTATAT	AAAACCTAAA	AACAAGAGAA	AAGAAAAATC	2460
	AATTAGATCT	AAACAGTTAT	TTCTGTTTCC	TATTTAATAT	AGCTGAAGTC	AAAATATGTA	2520
15	AGACACATT	TAAATACTC	TACTTACAGT	TGGCCCTCTG	TGGTTAGTTC	CACATCTGTG	2580
	GATTCAACCA	ACCAAGGACG	GAAAATGCTT	AAAAATAAT	ACAACAACAA	CAAAAAATAC	2640
	ATTATAACAA	CTATTTACTT	TTTTTTTTTT	CTTTTTGAGA	TGGAGTCTCG	CTCTGTGTCC	2700
	CAGGTGTGAG	TGCACTGGCA	CGATCTCGGC	TCACTGCAAC	CTCACTCCC	GGGTTCAGGA	2760
	GATCCTCCCT	CTCAGCCTG	CTGAGCAGCT	GGGACTACAG	GCGCATGCCA	CCATGCCCAG	2820
20	CTAATTTTTG	TATTTTAGT	AGAGGCGGGG	TTTCACCATG	TTGGCCAGGA	TGGTCTCAAT	2880
	CTCCTAACCT	TGAGATCCAC	CCTCCACAGC	CTCCCAACT	GCTGGGATTA	CAGGCGTGAG	2940
	CCACGCGACG	CATGATTAC	ATTAGGTATT	ACAAGTAATG	TAAAGATGAT	TAAAGTATAC	3000
	AGGAGGATGT	GAATAGGTTA	TATGCAAGCA	CTATGCCCTT	TTATATAAGT	GACTTGAACA	3060
	TCGTGCCCCG	ATTTTAGTAT	GTGACGGGGG	GCGATCTGGG	AATCAGTCCC	CTGTGGATAC	3120
25	CAAGTACAA	CTGTATTTAT	TAACGCTTAC	TAGATGTGAG	GAGAGTCTGA	ATATTTTCAG	3180
	TGATCTGGC	TGTTTCAAAA	AAATCTATTG	ACTTTTCAAT	AAATCAGCTG	CAATCCATT	3240
	ATTTCATTTA	CAAAAGATT	ATTGTAAGCC	TCTCAATCTT	GGTTTTTCAG	TGATCTTAA	3300
	GCATGTCAAT	TCATAAAAC	AAGTCATTTT	TGTATTTTTC	ATCTTTAAGA	ATGCTTAAAA	3360
30	AAGCTAATCC	CTAAAATAGT	TAGATCTTTG	TAAATGCATA	TAAATAATA	AAGTATGACC	3420
	CACATTACTT	TTTATGGGTG	AAAATAAGAC	AAAAATAATA	GTTTTAGTGA	GGATGGTGCT	3480
	GAGTAAACAT	AAAACTGAT	TTGCTCTCAG	CTGATGTGTC	CTGTACACAG	TGGGAAGATT	3540
	TTAGTTCACA	CTTAGTCTAA	CTCCCCCAIT	TTACAGATTT	CTCACTATAT	ATATTTCTAG	3600
	AAGGGGCTAT	GCATATTCAA	TGTATTGAGA	ACCAAGGCAA	CCACAAATGC	ATAAATGCAT	3660
	AATTTATGGT	CTTCAACCAA	GGCCACATAA	TAACCCAGTT	AACCTACTCT	TAAACCAGGA	3720
35	ATATTAAGTT	CTATAACTAG	TACTCAAGST	TTAACCTTAA	AATTAAGATT	TCCTTAACTT	3780
	TAACCTTAAA	ATTGATATTA	TATTAACAT	ACATAATACA	ATGTAACCTC	ACTGTTCTCC	3840
	TGAATATTTT	TGCTCTAAT	CTCTCTGCGC	AAAGTCAAAG	TGATGGGAGA	ATTGGTATAC	3900
	TGGTATGACT	ACGTCTTAAG	TCAGATTTTT	ATTATGAGT	CTTTGAGACT	AAATTCATC	3960
	ACCACCAAGT	ATCAATCAAA	CTTTATGCA	GCAATATAT	GATTCTAGTG	TCTGACTTTT	4020
40	GTTAAATFCA	GTAATGCAGT	TTTTAAAAAC	CTGTATCTGA	CCCACITTTG	AATTTTGTCT	4080
	CCAATATCCA	TTCTGTAGAC	TTTTGAAAAA	AAAGTTTTTA	ATTGTATGCC	CAATATATTC	4140
	TGACCGTTAA	AAAATCTTTG	TTCAATGGG	AGAAGGGGGA	GTAATGACTT	GTACAAACAG	4200
	TATTTCTCGT	GTATATTTTA	ATGTTTTTAA	AAAGAGTAAT	TTCAATTTAA	TATCTGTTAT	4260
	TCAAATTTGA	TGATGTTAAA	TGTAATATAA	TGTATTTTCT	TTTTATTTTG	CACCTCTGTA	4320
45	TTGCACITTT	TAGTTTGAA	GAGCCATTTT	GGTAAACGGT	TTTTATTAAA	GATGCTATGG	4380
	AACATAAAGT	TGTATTGCAT	GCAATTTAAA	GTAACITATT	TGACTATGAA	TATTATCGGA	4440
	TTACTGAATT	GTATCAATTT	GTGTTGTTTC	AATATCAGCT	TGATAAATTG	TGTACCTTAA	4500
	GATATTGAA	GAGAAATAG	ATAATTACA	AGATATTATT	AATTTTATT	TATTTTCTT	4560
50	GGGAATTGAA	AAAAATTGAA	ATAAATAAAA	ATGCAITGAA	CATCTTGAT	TCAAAATCTT	4620
	CACTGAC						

Seq ID NO: 154 Protein sequence
Protein Accession #: NP_001423.1

55	1	11	21	31	41	51	
	MTAGRRMEL	CAGRVPALLL	CLGFHLLQAV	LSTTVIPSCI	PGESSDNCTA	LVQTEDNPRV	60
	AQVSIKCSS	DMNGYCLHQ	CIYLVDMSON	YCRCEVGYTG	VRCEHPFLTV	HQPLSKYVA	120
	LTVILILFL	ITVVGSTYF	CRWYRNKRSK	EPKKEYERV	SGDPELPQV		

Seq ID NO: 155 DNA sequence
Nucleic Acid Accession #: NM_013282.2
Coding sequence: 85..2466

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	ACCCACACGG	TGGACTCGCT	GTCCAGGCTG	ACCAAGGTGG	AGGAGCTGAG	GCGGAAGATC	180
	CAGGAGCTGT	TCCACGTGGA	GCCAGGCTTG	CAGAGGCTGT	TCTACAGGGG	CAAAACAGATG	240
70	GAGGACGGCC	ATACCTCTT	CGACTACGAG	GTCCGCTTGA	ATGACACCAT	CCAGCTCCTG	300
	GTCGCGCAGA	GCCTCGTGCT	CCCCACAGC	ACCAAGGAGC	GGGACTCCGA	GCTCTCCGAC	360
	ACCGACTCCG	GCTGCTGCT	GGGCCAGAGT	GAGTCAGACA	AGTCTCCAC	CCAAGGCGAG	420
	GCGCGCGCG	AGACTGACAG	CAGGCCAGCC	GATGAGGACA	TGTGGGATGA	GACGGAATTG	480
75	GGGCTGTACA	AGGTCATAGA	GTACGTCGAT	GCTCGGGACA	CGAACATGGG	GGCGTGGTTT	540
	GAGGCGCAGG	TGGTCAGGGT	GACGCGGAAG	GCCCCCTCCC	GGGAGAGGCC	CTGCAGCTCC	600
	ACGTCCAGGC	CGCGCTGGA	GGAGGACGTC	ATTACACAGC	TGAAATACGA	CGACTACCGC	660
	GAGAACGGCG	TGGTCAGAT	GAACTCCAGG	GACGTCGAG	CGCGCGCCCG	CACCATCATC	720
	AAGTGGCAGG	ACCTGAGGT	GGGCCAGGTG	GTCTGCTCA	ACTACAACCC	CGACAACCCC	780
80	AAGGAGCGGG	GCTTCTGGTA	CGACGCGGAG	ATCTCCAGGA	AGCGCGAGAC	CAGGACGGCG	840
	CGGGAACCT	ACGCCAACGT	GGTGCTGGGG	GATGATTCTC	TGAACGACTG	TCGGATCATC	900
	TTCTGTGAGA	AAGTCTTCAA	GATTGAGCGG	CGGGGTGAAG	GGAGCCCCAT	GGTTGACAAC	960
	CCCATGAGAC	GGAGAGCGCG	GCCGTCTGTC	AAGCACTGCA	AGGACGACGT	GAAACAGACTC	1020
	TGCGGGTCT	GCCTCTGCCA	CCTGTGCGGG	GGCGGCGAGG	ACCCCGACAA	CGAGCTCATG	1080
	TGCGATGAGT	GCGACATGGC	CTTCCACATC	TACTGCCTGG	ACCCGCCCTT	CAGCAGTGTT	1140

5 CCCAGCGAGG ACGAGTGGTA CTGCCCTGAG TGCCCGAATG ATGCCAGCGA GGTGGTACTG 1200
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 TCACAGCGGG ACTGGGGCAA GGGCATGGCC TGTGTGGGCC GCACCAAGGA ATGTACCATC 1320
 GTCCCGTCCA ACCACTACGG ACCCATCCCG GGGATCCCGG TGGGCACCAT GTGGCGGTTC 1380
 CGAGTCCAGG TCAGCGAGTC GGGTGTCCAT CGGCCCCACG TGGCTGGCAT ACACGGCCCG 1440
 AGCAACGACG GAGCGTACTC CCTAGTCTCT GCGGGGGGCT ATGAGGATGA CGTGGACCAT 1500
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 GCGGAACAGT CTTGTGATCA GAAACTCACC AACACCAACA GGGCGCTGGC TCTCAACTGC 1620
 10 TTTGCTCCCA TCAATGACCA AGAAGGGGCC GAGGCCAAGG ACTGGCGGTC GGGGAAGCCG 1680
 GTCAGGGTGG TGCGCAATGT CAAGGGTGGC AAGAAATGCA AGTACGCCCC CGCTGAGGGC 1740
 AACCGCTACG ATGGCATCTA CAAGGTGTGT AAATACTGGC CGAGAGAAGG GAAGTCCGGC 1800
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 GAGGGGAAGG ACGGATCAA GAAGCTGGGG CTGACCATGC AGTATCCAGA AGGCTACCTG 1920
 15 GAAGCCCTGG CCAACCGAGA GCGAGAGAAG GAGAACAGCA AGAGGGAGGA GGAGGAGCAG 1980
 CAGGAGGGGG GCTTGCCTGC CCCAGGAGC GGCAGGGCA AGTGGAGGCG GAAGTCCGGC 2040
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 CCTACAGTC TCACGGCCCA GCGAGAGCAG CTATCAGAG AGGACAAGAG CAACGCCAAG 2160
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 20 TTGTTCCTGA GTAAAGTGA GGAGACCTTC CAGTGTATCT GCTGTCAGGA GCTGGTGTTC 2280
 CGGCCCATCA CGACCGTGTG CCAGCACAAC GTGTGCAAGG ACTGCCTGGA CAGATCCTTT 2340
 CGGGCAGAGG TGTTCAGCTG CCTGCTGCG CGCTACGACC TGGGCGCGAG CTATGCCATG 2400
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 25 CATCGGCACT GATTTTGTTC TTAGTGGCT TAACTTAAAC AGGTAGTGT TCTCTCGTTC 2580
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 30 CAATCTTTTA AGAAGGCGAC AGGATCAGTC CTCTCTAGG GTTCTGGCCC CCAAGGTGAG 2880
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 35 CACGCAAGAA TGGCCTCAAG GGGACTCTGC TCCACGTGGG GCCAGGCGTG TGACTGACGC 3180
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 GATTCTGTC TTTCTTTCTA AGACGACAG CTTTGTGTT AGCACTGAAT TATTGAAAT 3300
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 40 GGAACCGTTT GAGCCTTATA GATCATTTAC ATTCATTTT TTTAACTCAG CAAGTGAGAA 3420
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 TTTTTTTTGT AGTTACTGTA TATGTACCAA GAAAGATATA ACGTTAGGGT TTGGTGTGTT 3540
 TGTTTTTTGT ATTTTTTTTC TTTTGAAGG GTTTGTTAAT TTTTCTAATT TTACCAAAGT 3600
 45 TTGACGCTTA TACCTCAATA AAACAGGGAT ATTTTAAATC ACATACCTGC AGACAAACTG 3660
 GAGCAATGTT ATTTTAAAG GGTTTTTTTC ACCTCCTTAT TCTTAGATTA TTAATGTATT 3720
 AGGGAAGAAAT GAGACAATTT TGTGTAGGCT TTTTCTAAAG TCCAGTACTT TGTCCAGATT 3780
 TTAGATTCTC AGAATAAATG TTTTTCACAG ATTGAAAAAA AAAAAAAA

Seq ID NO: 156 Protein sequence
 Protein Accession #: NP_037414.2

50 1 11 21 31 41 51
 MWIQVRTMDG RQTHTVDSLS RLTKVEELRR KIQLFHVPEP GLQLFYRGK QMEDGHTLFD 60
 YEVRLNDTIQ LLVRQSLVLP HSTKERDSEL SDTDSGCCLG QSESDKSSTH GEAAETDSR 120
 55 PADEDMDDET ELGLYKVNEY VDARDTMGA WFEAQVVRVT RKAPSRDEPC SSTSRPALBE 180
 DVIYHVKYDD YFENGVVQMN SRDVRARART IIKWQDLEVG QVVMNLNYPD NPKERGFWYD 240
 AEISRKRETR TARELYANVV LGDDSLNDCR IIPFDEVFKI ERPGEKSPMV DNPMPRRKSGP 300
 SCXHKDDVN RLRCVCAACH CGGRQDPDKQ LMCDECDMAF HIYCLDPPLS SVPSEDEWYC 360
 PECRNDASVY VLAGERLRES KKKARMAAT SSSQRDWGKG MACVGRPTKEC TIVPSNHYGP 420
 60 IPGIPVGTMW RFRVQVSESG VHRPHVAGIH GRSNDGAYSL VLAGGYEDDV DEGNFFTYTG 480
 SGGRLSGNK RTAEQSCDQK LINTNRALAL NCFAPINDQE GAEAKDWRSG KPVVVVRNVK 540
 GGKNSKYAPA EGNRYDGIYK VVKYWPKEGK SGFLVWRYLL RRDDDEPGPW TKEGKDRIKK 600
 LGLTMQYPEG YLEALANRER EKENSKEEEE EQEGGFASP RTGKGKWKRK SAGGQPSRAG 660
 SPRTSRKTK VEPYSLTAQQ SSLIREDKSN AKLWNEVLAS LKDRPASGSP POLFLSKVEE 720
 65 TFQCICQBEL VFRPITTVQC HNVCKDCLDR SFRAQVPSCP ACRYDLGRSY AMQVNPQLQT

Seq ID NO: 157 DNA sequence
 Nucleic Acid Accession #: NM_000756.1
 Coding sequence: 186..776

70 1 11 21 31 41 51
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 75 TCTCTGCAGA GAGGCGCGAG CACCCGGCTC ACCTGCGAAG CGCCTGGGAA GCGAGTGGCC 180
 CTAACATGCG GCTCGCGCTG CTTGTGTCGG CGGGAGTCCCT GCTGTGTGCT CTCCTGCGCT 240
 GCGCGCCATG CAGGCGGCTC CTGAGCCGCG GCGCGGTCCC GGGAGCTCGG CAGGCGCGCG 300
 AGCACCTCA GCCCTGGAT TTCTCCAGC CGCGCGCGCA GTCCGAGCAG CCCAGCAGC 360
 CGCAGGCTCG GCGGCTCTG CTCCGATGG GAGAGGAGTA CTTCCTCCGC CTGGGGAACC 420
 80 TCAACAGAG CCCGCGCGCT CCCCTTTGCG CGGCTCCTC GCTCCTCGCC GGAGGCAGCG 480
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 TGCTGCTGCC TCGGCGCTCG CTCGACAGCC CCGCGCTCTC CGCGAGCGCG GCGCGTAGGA 600
 ATGCGCTCGG CGGCGACAGG GAGGCGCGCG AGAGAGAAAG GCGGTCCGAG GAGCCTCCCA 660
 TCTCCCTGGA TCTCACTTC CACCTCTTCC GGGAAAGTCTT GGAATGGGCC AGGGCGGAGC 720
 AGTTAGCACCA CCAAGCTCAC AGCAACAGGA AACTCATGGA GATTATTGGG AATAAAACG 780

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GTGCGTTTGG CCAAAAAGAA TCTGCATTTA GCACAAAAAA AATTAAAAAA AATACAGTAT 840
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GGGAGAGAGG GAGAGAGGCT ATACCCCTTA CTTAGCATGC ACAAAGTGTA TTCACGTGCA 960
GCAGCAACAC AATGTTATTC GTTTTGTCTA CGTTTAGTTT CCGTTTCCAG GTGTTTATAG 1020
TGGTGTTTTA AAGAGAATGT AGACCTGTGA GAAAACGTTT TGTTTGAAAA AGCAGACAGA 1080
AGTCACTCAA TTGTTTTTGT TGTGGTCTGA GCCAAAGAGA ATGCCATTCT CTTGGGTGGG 1140
TAAGACTAAA TCTGTAAGCT CTTTGAAACA ACITTTCTCT GTAAACGTTT CAGTAATAAA 1200
ACATCTTTCC AGTCCTTGGT CAGTTTGGTT GTGTAAGAGA ATGTTGAATA CTTATATTTT 1260
TAATAAAAGT TGCAAGGT

Seq ID NO: 158 Protein sequence
Protein Accession #: NP_000747.1

1 11 21 31 41 51
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ARPVLLRMGE EYFLRLGNLN KSPAAPLSFA SLLLAGSGSG RPSFEQATAN FFRVLLQQLL 120
LPRRLSDSPA ALAERGARNA LGGHQEAPEP ERRSEBPPI SLDLTFHLLRE VLEMARAEQL 180
AQQAHSNRKL MEIIGK

Seq ID NO: 159 DNA sequence
Nucleic Acid Accession #: NM_001200.1
Coding sequence: 325..1514

1 11 21 31 41 51
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TGCCCCGAGC TGAGACGCTG TTCCCGCGGT GAAAAGAGAG ACTGCGCGGC CGGCACCCGG 180
GAGAAGGAGG AGGCAAGAAA AAGGAACCGA CATTGCGTCC TTGCGCCAGG TCCTTTGACC 240
AGAGTTTTCG CATGTGGACG CTCTTTCAAT GGACGTGTCC CCGGTGCTCT CTTAGACCGA 300
CTGCGGTCTC CTAAAGTTCG ACCATGCTGG CCGGGACCGC CTGTCTCTTA GCGTTGCTGC 360
TTCCCCAGGT CCTCTGCGGC GGCGCGGCTG GCCTCGTTCC GGAGCTGGGC CGCAGGAAGT 420
TCGCGCGCGC GTGCTGCGGC CGCCCTCATC CCCAGCCCTC TGACGAGGTC CTGAGCGAGT 480
TCGAGTTGCG GCTGCTCAGC ATGTTGCGCC TGAACAGAG ACCCACCCCC AGCAGGGAAG 540
CCGTGGTGCC CCGCTACATG CTAGACCTGT ATCGCAGGCA CTCAGGTCTAG CCGGGCTCAC 600
CGGCCCCAGA CCACCGGTTG GAGAGGGCAG CCAGCCGAGC CAACACTGTG CGCAGCTTCC 660
ACCATGAAGA ATCTTTGGAA GAACCTACAG AACGAGTGG GAAAACAACC CGGAGATTCT 720
TCTTTAATTT AAGTTCTATC CCCACGGAGG AGTTTATCAC CTCAGCAGAG CTTCAGGTTT 780
TCCGAGAACA GATGCAAGAT GCTTTAGGAA ACAATAGCAG TTTCCTCAC CGAATTAATA 840
TTTATGAAT CTAAACCT GCAACAGCCA ACTCGAATTT CCCCCTGACC AGACTTTTGG 900
ACACCAAGTT GGTGAATCAG AATGCAAGCA GGTGGGAAAG TTTTGTATGC ACCCCGCTG 960
TGATGCGGTG GACTGCAAGG GGACACGCCA ACCATGATTT CGTGGTGGAA GTGGCCCACT 1020
TGGAGGAGAA ACAAGGTGTC TCCAAGAGAC ATGTTAGGAT AAGCAGGTCT TTGACCAAG 1080
ATGAACACAG CTGCTCAGC ATAAGGCCAT TGCTAGTAAC TTTTGCCAT GATGGAAG 1140
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AGTCCAGCTG TAAGAGACAC CCTTTGTACG TGGACTTCAG TGACGTGGG TGGAAATGACT 1260
GGATTGTGGC TCCCGCGGGG TATCAGCCTC TTTACTGCCA CGGAGAATGC CCTTTCTCTC 1320
TGGCTGATCA TCTGAATCC ACTAATCATG CCATTGTCTA GACGTGTGTC AACTCTGTGA 1380
ACTCTAAGAT TCTTAAGGCA TGCTGTGTCC CGACAGAATC CAGTGTCTAT TCGATGCTGT 1440
ACCTTGACGA GAATGAAAG GTGTGATTAA AGAATATCA GGACATGGTT GTGGAGGGTT 1500
GTGGGTGTGC CTAGTACAGC AAAATTAAAT ACATAAATAT ATATATA

Seq ID NO: 160 Protein sequence
Protein Accession #: NP_001191.1

1 11 21 31 41 51
MVAGTRCLLA LLLPQVLGG AAGLVEPLGR RKFAAASSGR PSSQPSDEVL SEFELRLLSM 60
FGLKQRPTPS RDAVVPFMYL DLYRRHSGQP GSPAPDHRLE RAASRANTVR SFHHEESLEE 120
LPETSGKTTR RFFFLNLSIP TEEFITSDEL QVFREQMDA LGNNSSFHHR INIYEIIPKA 180
TANSKFPVTR LLDL

Seq ID NO: 161 DNA sequence
Nucleic Acid Accession #: NM_001999.2
Coding sequence: 1..8736

1 11 21 31 41 51
ATGGGGAGAA GACGGAGGCT GTGTCTCCAG CTCTACTTCC TGTGGCTGGG CTGTGTGGT 60
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CCCGAGTATC GCGAGGAGGG TGCCGCGGTG GCCAGCGCGC TCCGCGCGGC AGGACAGCAG 240
GACGTGCTTC GAGGGCCCAA CGTGTGCGGC TCCAGATTCC ACTCCTACTG CTGCCCTGGA 300
TGGAAAGAGC TCCTGGAGG AAACCAAGTC ATTGTCCCGA TTTGTAGAAA TAGTTGTGGA 360
GATGATTTT GTTCCCGTCC TAACATGTGT ACTTGTTCCT GTGGGCAAT ATCATCAACC 420
TGTGGATCAA AATCAATTCA GCAGTGCAGT GTGAGATGCA TGAATGGTGG GACCTGTGCA 480
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GAAAATGGAT GTCAAGATGG TGGACGTGTC ATCGCCCAAC CGTGTGCTTG TGTTTATGGG 600
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AACCAGATGT GCCAAGGCA GCTGACAGGC ATTGTCTGCA CGAAGACTCT GTGCTGTGCC 720
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CGACGGGGTT TCATCCCCAA CATCCGCACT GGAGCTTGCC AAGATGTTGA TGAATGCCAG 840
GCTATCCGAC GGATATGCCA AGGAGGAAAC TGTATCAATA CAGTGGGCTC TTTTGAATGC 900

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	TTTGTGTGTT	GTCCAGCTGG	ATATGTAACC	TCAACAGATG	GCTCTCGATG	CATCGATCAG	1080
5	AGAACAGGCA	TGTGTTTCTC	GGGCTTGGT	AATGGCCGCT	GTGCACAAGA	GCTCCCGGGG	1140
	AGAATGACGA	AAATGCAGTG	CTGCTGTGAG	CCTGGCCGCT	GCTGGGGCAT	CGGAACCAT	1200
	CCTGAAGCCT	GTCTGTGAG	AGGTTCTGAG	GAATATCGCA	GACTTTGCAT	GGATGGACTT	1260
	CCAATGGGAG	GAATTCAGG	GAGTGTGCT	TCCAGACCTG	GAGGCACTGG	GGGAAATGGC	1320
	TTTGGCCCAA	GTGGCAATGG	CAATGGCTAT	GGCCAGGAG	GGACAGGCTT	CATCCCATC	1380
10	CCTGGAGGCA	ATGGCTTTTC	TCCTGGCGTT	GGGGAGCCG	GTGTGGGGG	CGGGGACAG	1440
	GGACCTATCA	TCAGTGAAT	AACAATTCG	AACCAGACAA	TAGATATCTG	TAAGCATCAT	1500
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	AATCCCTGCA	CTAATGGAGA	TTGTGTTAAC	ACACCTGGTT	CCTATTATTG	TAAATGTCAT	1680
15	GCTGGATTCC	AGAGGACTCC	TACCAAGCAA	GCATGCATTG	ATATTGATGA	GTGCATCCAG	1740
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	TGCAATGGCT	GCTTGAATGG	AACTACAGAT	GGAAAAAAT	GTGTTGATCA	TGATGAATGC	1860
	ACAACTACCA	ACATGTGTTT	GAATGGAATG	TGCATCAATG	AAGATGGCAG	CTTCAAGTGC	1920
	ATCTGCAAA	CAGGATTTGT	CTTGGCTCCA	AATGGGCGTT	ACTGTACTGA	TGTTGATGAA	1980
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	TGTGACTGTG	CCCCAGGCTT	GGCTGTGGGG	ATGGATGGAC	GTGTGTGTGT	TGATACTCAC	2100
	ATGCGCAGTA	GCTGTATGG	AGGAATCAAG	AAAGGAGTGT	GTGTGCGTCC	TTTCCCGGTT	2160
	GCAGTGACCA	AGTCCGAATG	CTGCTGTGCC	AATCCAGACT	ATGTTTGGG	AGAACCTGTC	2220
	CAGCCATGCC	CTGCAAAAAA	TTCAAGCTGAA	TTCCACGGCC	TTTGTAGTAG	TGGAGTAGGT	2280
25	ATCACTGTGG	ATGGAAGAGA	TATCAATGAA	TGTGCTTTGG	ATCCTGATAT	ATGTGCCAAT	2340
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	GATGCTCTG	GAAGAACTG	TATTGACATT	GATGAATGTT	TAGTAAACAG	ACTGCTTTGT	2460
	GATAACGGAT	TGTGCCGAAA	CACGCCAGGA	AGTTACAGCT	GTACGTGCCC	ACCAGGGTAT	2520
	GTGTTACAGG	CTGAGACAGA	GACCTGTGAA	GATATAAATG	AATGTGAAG	CAACCCATGT	2580
30	GTCAATGGGG	CCTGCAGAAA	CAACCTTGGA	TCTTTCAATT	GTGAATGTTT	CGCCCGCAGC	2640
	AAACTCAGCT	CCACAGGATT	GATCTGTATT	GACAGCCTGA	AGGGGACCTG	TTGGCTCAAC	2700
	ATCCAGGACA	GAGCGCTGTA	GGTGAATATT	AATGGAGCCA	CTCTGAATTC	TGAATGCTGT	2760
	GCCACCCCTG	GAGCGGCTG	GGGGAGCCCC	TGTGAGCGGT	GTGAACCTGA	TACAGCTTGC	2820
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35	TTCCCTGGCG	TTTGTCCAAA	TGGAGCGTGT	GTCAACAGTA	AGGGATCTTT	TCATTGCGAG	2940
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	CAGTGTACT	TGAAGTGGGA	TGAAGATGAA	TGCATCCACC	CGGTTCTGCG	AAAGTTCCGC	3060
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40	GGGGATGTTT	TTACTGGGCG	GGCATTTTAC	AAAGACATCA	ATGAATGCAA	AGCATTTCCT	3240
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	ATGGGCTTTG	CTCTAGACAT	GGAGGAAAGA	AACCTGCACG	ACATCGAACGA	GTGCAGGATT	3360
	TCTCTGACCC	TCTGTGGCAG	TGGAATCTGC	GTCAATACAC	CGGGCAGCTT	TGAGTGCGAG	3420
	TGCTTGAAG	GCTATGAAAG	TGGCTTCATG	ATGATGAAGA	ACTGCATGGA	CATTGACGGA	3480
45	TGTGAACGTA	ACCTCTCTCT	TTGTAGGGGT	GGCACCTGTG	TGAACACTGA	GGGCAGCTTT	3540
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	AATGAATGCT	CCCTGATGTA	CAATCTCTGC	AGAAATGGAA	AATGTGTGAA	CATGATTGGA	3660
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	GATATTGATG	AATGTATGAT	AATGAACCGA	GGCTGTGACA	CCGAGTGAC	AAATTGAGAG	3780
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	ATTCTGGGAG	AGTATCGCTG	CCTCTGCTAT	GATGGCTTCA	TGGCTTCCAT	GGACATGAAA	3960
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	GAGAACACAA	AGGGATCTCT	CATTTGCCAC	TGTCAGCTGG	GTTACTCAGT	GAAGAAGGGG	4080
55	ACCACAGGAT	GTACAGATGT	GGATGAGTGT	GAAATGGTGG	CTCATAACTG	CGACATGCAT	4140
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	AACGGCATCA	AGTGTATTGA	TCTGGACGAA	TGTTCTAATG	GAAACCCACC	GTGTAGCATC	4260
	AATGTCTCAGT	GTGTAAATAC	CCCGGGCTCA	TACCGCTGTG	CCTGCTCCGA	AGGTTTCACT	4320
	GGTGTAGGCT	TTACCTGCTC	AGATGTTGAT	GAGTGTGCG	AAAACATAAA	CCTCTGTGAG	4380
60	AACGGACAGT	GCCTTAATGT	CCCGGGTGCA	TATCGCTGCG	AGTGTGAGAT	GGGCTTCACT	4440
	CCAGCCTCAG	ACAGCAGATC	CTGCCAAGAT	ATTGATGAAT	GCTCCTTCCA	AAACATTGTT	4500
	GTCTCTGGAA	CATGTAAATA	CCTGCCCTGA	ATGTTTCATT	GCATCTGCGA	TGATGGTTAT	4560
	GAATTGGACA	GAACAGGAGG	GAACGTGTACA	GATATTGATG	AGTGTGCAGA	TCCTATAAAC	4620
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65	TTTCAGTTGA	ACCCAATCTG	TGTGGGTTGT	GTTGACAACC	GTGTGGGCAA	CTGCTACCTG	4740
	AAGTTTGGAC	CTCGAGGAGA	TGGGAGTCTG	TCTTGCAACA	CGAGATCGG	GGTGGGCGTC	4800
	AGTGCCTCTT	CATGCTGTG	CTCTCTGGGA	AAGGCCCTGG	GAAACCCCTG	TGAGACATGC	4860
	CCCCCTGTCA	ATAGCACTGA	ATATTACACC	CTGTGTCCCG	GAGGTGAAGG	CTTCAGACCT	4920
	AAACCCATCA	CAATCATTTT	AGAAGACATT	GACGAATGCC	AGGAGTTACC	AGGTCTCTGC	4980
70	CAGGGTGGAA	ACTGCATCAA	CACTTTGGG	AGCTTCCAGT	GTGAGTGCCC	ACAAGGCTAC	5040
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	CGAAGCTATA	ATGGAACCA	TTGTGAGAAT	GAGTTGCTTT	TCAATGTGAC	AAAAAGGATG	5280
75	TGCTGTCTGA	CATATAATGT	GGGCAAGCT	GGGAACCAAT	CTTGTGAACC	ATGCCCAACT	5340
	CCAGGAACAG	CTGACTTTAA	AACCATATGT	GGAAATATTC	CTGGATTAC	CTTTGACATT	5400
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	AATGACCTGC	TGTTGGTTTG	TGAAGATATA	GATGAGTGCA	GCAATGGTGA	TAATCTCTGC	5580
80	CAGCGGAATG	CAGACTGCAT	CAATAGTCTT	GGTAGTTACC	GCTGTGAATG	TGCCGCGGGT	5640
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	CCATGTGGAA	ATGGAACCTG	TAAAAACACC	GTTGGATCCT	ATAACTGTCT	GTGCTACCCA	5880
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	GCCCTTCCCG	GCTCTTGCTC	TCTTGGTACC	TGTGAGAAAT	TGGAGGGATC	CTTCAGATGC	6120
5	ATCTGTCCCC	CAGGGTATGA	AGTAAAAAGC	GAGAACTGCA	TTGATATAAA	TGAATGTGAT	6180
	GAAGATCCCA	ACATTTGTCT	TTTTGGTTCC	TGTACTAATA	CTCCAGGGGG	CTTCCAGTGC	6240
	CTCTGCCCCC	CTGGCTTTGT	ACTATCTGAT	AATGGACGGA	GATGCTTTGA	TACTCGCCAG	6300
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	ACAAAAGCAA	ATGCTGCTG	TAGTAAGATG	CCAGGAGAGG	GCTGGGGGGA	CCCCTGTGAG	6420
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	AATGCTCAGT	GCATCAATAC	CATGGGCTCA	TTCCGATGCT	TCTGCAAGTG	TGGCTACACC	7440
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40	GGGCAGTACC	TGTCACTGGA	TACAGAGGTC	GATGAGGAAA	ATGCTCTGTC	CCCAGAAAGCA	8280
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	GTGGTTACTG	TATTTTATAT	ATAACTTCAT	TTTAAATAT	ATTAAAGAA	ACCTAAATGT	9000
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70	TATTAAGAGC	ACGTATCCAT	TATTTCTCTC	AACCCAAAGAA	CCTGTTTCTT	GGACCAAGTGA	10020
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Seq ID NO: 162 Protein sequence
Protein Accession #: NP_001990.1

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80	PEYREBGA	ASRVRRRQ	DVLRGNVCG	SRFHSYCCPG	WKLTPGQNC	IVPICRNSCG	120
	DGFCSRNMC	TCSSGQISST	CGSKSIQCS	VRCMNGGTCA	DDHCQCKGY	IGTYCGQPV	180
	ENGQNGGRC	IAQPCACVYG	FTGPQCDY	RTGCPFTQVN	NMQCQQLTG	IVCTKTLCCA	240
	TTGRAWGHP	EMCPAQPPC	RRGFIPNIRT	GACQDVDECO	AIPGICQGGN	CINTVGSFEC	300
	RCFAGHKQSE	TFQKCEDIDE	CSIIIPGICET	GECSNIVGSY	FCVCPRGVYT	STDGSRCIDQ	360
	RTGMCPSGLV	NGRCAQELPG	RMTKMQCCCB	PGRCNGIGTI	PEACPVRGSE	EYRRLCMDGL	420

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	CQTPGICWNG	HCINSBGSFR	CDCPPGLAVG	MDGRVCVDTH	MRSTCYGGIK	KGVCVRPFPG	720
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	GICENLRGSY	RCNCNSGYEP	DASGRNCIDI	DECLVNRLLC	DNGLCRNTPG	SYSTCTPPGY	840
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	FFGVCPNGRC	VNSKGSFHC	CPEGLTLDGT	GRVCLDIRME	QCYLKWDEDE	CIHPVPGKFR	1020
	MDACCAVGA	AWGTCEBECF	KPGTKEYETL	CPRGAGPANR	GDVLTGRPFY	KDINECKAPP	1080
	GMCTYGRKCN	TIGSFKRCRN	SGFALDMEER	NCTDIDECRI	SPDLGSGSIC	VNTPGSPFCE	1140
	CFEGYBSGFM	MMKNQMDIDG	CERNPLLRCG	GTCVNTGESP	QCDCPLGHEL	SPSREDCVDI	1200
15	NECSLSNMLC	RNGKCVNMIG	TYQCSNPGY	QATPDRQGCT	DIDECEMIMG	GCDTQCTNSE	1260
	GSYBSCSSEG	YALMPDGRSC	ADIDECEENN	DICDGGQCTN	IPGEYRCLCY	DGFMASMDMK	1320
	TCIDVNECDL	NSNCFMEGEC	ENTKGSFICH	CQLGYSVKKG	TTGCTDVDEC	EIGAHCMDH	1380
	ASCLNIPGFS	KCSRBEGWIG	NGIKCIDLDE	CSNGTHQCSI	NAQCNTVPGS	YRCACSEGFT	1440
	GDGPTCSDVD	ECACENINLC	NGQCLNVPGA	YRCECEMGFT	PASDSRSQCD	IDECSEFQNIC	1500
20	VSGTCNNLPG	MFHCICDDGY	ELDRGTGGNCT	DIDECADPIN	CVNGLCVNTP	GRYECNCPFD	1560
	PQLNPTGVGC	VDRNVGNCYL	KFGPRGDGSL	SCNTEIGVG	SRSSCCCSLG	KANGNFCETC	1620
	PPVNSTEYIT	LCPEGCEGFR	NPITIILEDI	DECQELPGLC	QGGNCINTFG	SPQCECPQGY	1680
	YLSIEDTRICE	DIDECFAHPG	VCGPGTCYNT	LGNYTCICPP	EYMQVNGGHN	CMDMRKSPFY	1740
	RSYNGTICEN	ELFPNVTKRM	CCCTYNVGA	GKPKCEPCPT	PGTADFKTIC	GNIPGTFEDI	1800
25	HTGKAVIDE	CKEIPGICAN	GVCINQIGSF	RCECPTGFSY	NDLLLVCEDI	DECSNGDNLC	1860
	QRNADCNINP	GSYRCECAAG	FKLSPNGACV	DRNECLEIPN	VCSHGLCVDL	QGSYQICCHN	1920
	GFKASQDQTM	CMVDCECRRH	PCNGTCKRNT	VGSYNCLCYP	GELTHNNDL	LDIDECSFFP	1980
	QGVCRNGRCF	NEIGSFKCLC	NEGYELTPDG	KNCIDTNECV	ALPGSCSPGT	CQNLBGSFRC	2040
	ICPPGYEIVN	ECNIDINECD	EDFNICLFES	CINTPGGFQC	LCPPGFVLSD	NGRRCFDTRQ	2100
30	SFCPTNFENG	KCSVPKAFNT	TKAKCCCSKM	PGEHNGDPE	LCPKDEVAFA	QDLCPYGHGT	2160
	VPSLHDTREV	VNECLSEPGI	CSNGQCINTD	GSFRCECPMG	YNLDYTGVR	VDTECSIGN	2220
	PCNGTCTNV	KGPECECNE	GFEPGPMNMC	EDINECAQNP	LILCALRONT	FGSYECTPCI	2280
	GYALREDQKM	CHDLDECAEG	LHDCESRGM	CKNLIGTFMC	ICPPGMARRP	DGEGCVDENE	2340
	CRTEKGCEN	GRCVNIIGSY	RCECNEGFQS	SSSGTECLDN	RQGLCEFAVL	QTIQMASSS	2400
35	RNLVTKSECC	CDGGRGWGHQ	CELCPPLPOTA	QYKICPHGP	GYTTDGRDID	ECKVMPNLCT	2460
	NGQCINTMGS	FRFCVKVGYT	TDISGTSCID	LDECSQSPKP	CNYICKNTG	SYQCSCPRGY	2520
	VLQEDGCTCK	DLDEGCTKQH	NQFLCVNTL	GGFTCKCPPG	FQHTHTACID	NNECGSQPLL	2580
	CGGKGIQONT	PGSFSCBQR	GFSLDATGLN	CEVDDECDGN	HRCQHGCQNI	LGGRYCGCPQ	2640
	GIIQHYQCN	CVDENECNPN	NACGSASCYN	TLSYKACAP	SGFSFDQFSS	ACHDVNECSS	2700
40	SKNPNYNGCS	NTEGGYLCOC	PPGYRVGQG	HCVSGMGPNK	GQVLSLDTEV	DEENALSPRA	2760
	CYECKINGYP	KDSRQKRRI	HEPDPTAVEQ	ISLESVDMDS	PVMKMFNLSH	LGSKEHILEL	2820
	RPAIQPLNNH	IRYVISQOND	DSVFRHQRN	GLSYLHTAKK	KLMPGTYTLE	ITSIPLYKKK	2880
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Seq ID NO: 163 DNA sequence

Nucleic Acid Accession #: NM_013372.1

Coding sequence: 63..617

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	CGGCTGCTGA	AGGGAAGGAG	AAAGGTCCC	AAGGTGCCAT	CCCCCGGCA	GACAAGGCC	180
	AGCACAAATGA	CTCAGCAGCA	ACTCAGTCGC	CCACAGCAGC	TGGCTCCAGG	AACCGGGGCG	240
55	GGGGCCAAAG	GGGGGGCACT	GCCATGCCCC	GGGAGGAGGT	GCTGGAGTCC	AGCCAAGAGG	300
	CCCTGCATGT	GACGAGGCGC	AAATACCTGA	AGCGAGAGCT	GTGCAAAACC	CAGCCGCTTA	360
	AGCAGAGCAT	CCACAGAGAA	GGCTGCAACA	CTCGCACCAT	CATCAACCGC	TTCTGTATAG	420
	GCCAGTGCAA	CTCTTTCTAC	ATCCCCAGGC	ACATCCGGAA	GGAGGAAGGT	TCCTTTCTAGT	480
	CTGTCTCCTT	CTGCAAGCCC	AAGAAATTCA	CTACCATGAT	GCTCACACTC	AACTGCCCTG	540
60	AACTACAGCC	ACCTACCAAG	AAGAAGAGAG	TCACACGTGT	GAAGCAGTGT	CGTTGCATAT	600
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	AGGAAGTCCC	AGACCTAAAA	CAACCAGATT	CTTACTTGGC	TTAAACCTAG	AGGCCAGAA	720
	AACCCCGCAG	TGCTCTCTGG	CAGGAGCCTG	CTTGTGGTGA	GTTCTGTGTC	ATGAGTGTGG	780
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	CCCTATTGTT	TAAACATATC	TGCTTTAATG	GGGATGTACC	AGAAACCCAC	CTCACCCCGG	900
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	CTTCTCTCTC	CCTCTCTCAC	ATCCATCTCT	CTTTAAGTTG	ATAGTGACTA	TGTAGTCTA	1140
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	TGGAGTGAAG	AGGGGAGGGT	GGAGGGTGAG	GCCAAATCAG	GTCCAGCAAA	AGTCAGTAGG	1320
	GACATGTGAC	AAGCTTGAAA	GGCCAAATAC	AGAACACAGG	CTGATGCTTC	TGAGAAAGTC	1380
	TTTTCTAGT	ATTTAACAGA	ACCCAAGTGA	ACAGAGGAGA	AATGAGATTG	CCAGAAAGTG	1440
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80	GCCTCTGCTG	AGTGTACCTG	ACAGTAAGTC	TAAAGATGAR	AGAGTTTAGG	GACTACTCTG	1800
	TTTTAGCAAG	ARATATTKTG	GGGGTCTTTT	TGTTTAAACT	ATTGTGAGGA	GATTGGGCTA	1860
	RAGAGAGAGC	GACGAGAGTA	AGGAAATAAA	GGGRATTGCC	TCTGGCTAGA	GAGTAAGTTA	1920
	GGTGTAAATA	CCTGGTAGAA	ATGTAAGGGA	TATGACCTCC	CTTCTTTTAT	GTGCTCACTG	1980
	AGGATCTGAG	GGGACCTGCT	TAGGAGAGCA	TAGCATCATG	ATGTATTAGC	TGTTCACTCTG	2040
	CTACTGGTGG	GATGGACATA	ACTATTGTAA	CTATTTCAGTA	TTTACTGGTA	GGCAGCTGTC	2100

	TCTGATTAAA	CTTGGCCTAC	TGGCAATGGC	TACTTAGGAT	TGATCTAAGG	GCCAAAGTGC	2160
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	TTTTATATAC	AAACTCCCTG	AATACTCTTT	TTGCCTTGTA	TCTTCTCAGC	CTCCTAGCCA	2280
5	AGTCCTATGT	AAATATGGAA	ACAAACACTG	CAGACTTGAG	ATTCAAGTGC	CGATCAAGGC	2340
	TCTGGCATTG	AGAGAACCCG	TGCAACTCGA	GAAGCTGTTT	TTATTTCTGT	TTTGTTTTGA	2400
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	ACACCCAAAA	TGTTGGGTCT	GATTTTCAAA	CTTTTAAACT	CACTACTGAT	GATTTCTCAG	2520
	CTAGGCGAAT	TTGTCCAAAC	ACATAGTGTG	TGTGTTTTGT	ATACACTGTA	TGACCCCAAC	2580
10	CCAAATCTTT	GTATTGTCCA	CATTCTCCAA	CAATAAAGCA	CAGAGTGGAT	TTAATTAAAG	2640
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	ATGTAAATCC	ACACCAAGGA	GGAAAAATGA	CATTCAAGAC	CAGCAACAC	TGAATTTCTC	2760
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	AGCAGTAATC	TTCTTTTAGG	AGCTTGTACC	ACAGTCTTGC	ACATAAGTGC	AGATTGGCT	2880
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15	TAAAAGCATT	TCAGTAGCCA	AAGAGGGAAA	TATCTGTTCT	TCTTACTGTG	CCTATTATTA	3000
	GACTAGTACA	AATGTGGTGT	GTCTTCCAAC	TTTCATTGAA	AATGCCATAT	CTATACCATA	3060
	TTTTATTGCA	GTCACTGATG	ATGTAATGAT	ATATTTTTTC	ATTATTATAG	TAGAATATTT	3120
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	TGAATTTTAT	TGTTGACACT	TTGTGCTTGG	CATTAAAGAA	AAAAAACACA	CATCCTGGAA	3240
20	GTCGTGAAGT	TGTTTTTTGT	TACTGTAGGT	CTTCAAAGTT	AAGAGTGTAA	GTGAAAAATC	3300
	TGGAGGAGAG	GATAATTTCC	ACTGTGTGGA	ATGTGAATAG	TTAAATGAAA	AGTTATGGTT	3360
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	TTCTCCCTTT	TATCTCTTTC	TCTGAGTTGG	GCAAGAAGAA	AGCTGACACA	CGTATGTTG	3480
	TTAGAGTCTT	TTATCTGGTC	AGGGGAAACA	AAATCTTGAC	CCAGCTGAAC	ATGTCTTCTT	3540
25	GAGTCAGTGC	CTGAATCTTT	ATTTTTTAAA	TTGAATGTTT	CTTAAAGGTT	AACATTTCTA	3600
	AAGCAATATT	AAGAAAGACT	TTAAATGTTA	TTTTGGAAGA	CTTACGATGC	ATGTATACAA	3660
	ACGAATAGCA	GATAATGATG	ACTAGTTTAC	ACATAAAGTC	CTTTTAAAGG	GAAAATCTAA	3720
	AATGAAAAGT	GGATAAACAG	AACATTTATA	AGTGATCAGT	TAATGCCCTA	GAGTGAAAGT	3780
	AGTTCTATTG	ACATTCCTCA	AGATATTATA	TATCAACTGC	ATTATGTATT	ATGTCTGCTT	3840
30	AAATCATTTA	AAAACGGCAA	AGAAATTATAT	AGACTATGAG	GTACCTTGCT	GTGTAGGAGG	3900
	ATGAAAGGGG	AGTTGATAGT	CTCATAAAC	TAATTTGGCT	TCAAGTTTCA	TGAATCTGTA	3960
	ACTAGAAATT	AAITTTTACC	CCAATAATGT	TCTATATAGC	CTTTGCTAAA	GAGCAACTAA	4020
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	GQGRGTAMPG	EEVLESSQEA	LHVTERKYLK	RDWCKTQPLK	QTIHEEGCNS	RTIINRFCYG	120
	QCNSFYIPRH	IRKEGSPFQS	CSFCKPKKFT	TMMVTLNCPE	LQPPTKKKRV	TRVQRCRCIS	180
	IDLD						
45	Seq ID NO: 165 DNA sequence Nucleic Acid Accession #: CAT cluster						
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	GCTACGTTTC	CGCTGAGCG	TGGACCGAAC	CGCGAAGGTG	CGGCGGAAGC	CGGAGCTCAT	120
	ACTGCGCACG	GAGAACGGGC	TCTGGCTCAA	G			
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	GCGGTGTCCA	CCCTTCTCTT	CTTCTCTGCT	TTCTTCTGTT	TCCGCTGTCT	GCTGCGGTTT	180
	CTGAGGCTCT	CGAGGAGCTT	CTACATCACC	TGCCGCGCGC	TGCGCTGCTT	CCCCAGCCT	240
65	CCCCGCGCA	ACTGGCTGCT	GGGCCACCTG	GGCATGTACC	TTCCAAATGA	GGGGGCGCTT	300
	CAAGATGAGA	AGAAGGTACT	GGACAACATG	CACCATGTAC	TCTTGGTATG	GATGGGACCT	360
	GTCTCTGCCG	TGTTGGTTCT	GGTGACCCCT	GATTACATCA	AACCCCTTTT	GGGAGCCTCA	420
	GCTGCCATCG	CCCCCAAGGA	TGACCTCTTC	TATGGCTTCC	TAAAACCTTG	GCTAGGGGAT	480
	GGGCTGCTGC	TCAGCAAAGG	TGACAAAGTG	AGCGCGCACC	GTGCGCTGCT	GACACCCGCC	540
70	TTCCACTTTG	ACATCTTGAA	GCCTTACATG	AAGATCTTCA	ACCAGAGGCG	TGACATTATG	600
	CATGCTAAAT	GGCGGCATCT	GGCAGAGGGC	TCAGCGGTCT	CCCTTGATAT	GTTTGAGCAT	660
	ATCAGCCTCA	TGACCTTGGA	CAGTCTTCAG	AAATGTGTCT	TCAGCTACAA	CAGCAACTGC	720
	CAAGAGAAGA	TGAGTGATTA	TATCTCGCT	ATCATTGAAC	TGAGCGCTCT	GTCTGTCCGG	780
	CGCCAGTATC	GCTTGACACA	CTACCTCGAC	TTCAATTACT	ACCGCTCGGC	GGATGGGCGG	840
75	AGGTTCCGCG	AGGAGCTGGA	CATGGTGAC	CACCTCACCA	CTGAAGTCA	CCAGGAACGG	900
	CGGCGGCGAC	TGCGTCAGCA	GGGGGCGGAG	GCCTGGCTTA	AGGCCAAGCA	GGGGAAGACC	960
	TTGAGCTTTA	TTGATGTGCT	GCTCCTGGCC	AGGGATGAAG	ATGGAAGGGA	ACTGTCAAGT	1020
	GAGGATATCC	GAGCCGAAGC	AGACACCTTC	ATGTTTGAGG	GTCAAGACAC	AACATCCAGT	1080
	GGGATCTCTT	GGATGCTGTT	CAATTTGGCA	AAGTATCCGG	AATACAGGGA	GAAATGCCGA	1140
80	GAAGAGATTG	AGGAAGTCT	GAAAGGCGCG	GAGCTGGAGG	AGCTGGAGTG	GGACGATCTG	1200
	ACTCAGCTGC	CCTTTACAAC	TATGTGCATT	AAGGAGAGCC	TGCGCCAGTA	CCCACCTGTC	1260
	ACTCTTGTCT	CTCGCCATG	CACGGAGGAC	ATCAAGCTCC	CAGATGGGCG	CATCATCCCC	1320
	AAAGGAATCA	TCTGCTTGGT	CAGCATCTAT	GGAACCCACC	ACAACCCACC	AGTGTGGGCT	1380
	GACTCCAAGG	TGTACAACCC	CTACCGCTTT	GACCGGACA	ACCCACAGCA	GCGCTCTCCA	1440

CTGGCCTATG TGGCCTTCTC TGCAGGACCC AGGAATTGCA TCGGACAGAG CTTCGCCATG 1500
 GCGAGTGTTC GCGTGGTGTG GGCACATAACA CTGCTACGTT TCGCCTGAG CGTGGACCGA 1560
 ACGCGCAGAG TGGCGGGGAA GCCGGAGCTC ATACTGCGCA CGGAGAACGG GCTCTGGCTC 1620
 AAGGTGGAGC CGCTGCCTCC GCGGGCCTGA

Seq ID NO: 167 Protein sequence
 Protein Accession #: FGENESH predicted

1 11 21 31 41 51
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 LRLCRSFYIT CRLRLCFPOP PRRLWLLGHL GMYLPNEAGL QDEKKVLDNM HHVLLVHMGP 120
 VLPPLLVLVPH DYIKPLLGAS AAIAPKDDLF YGFLKPNLGD GLLLSKGDW SRHRLRLTPA 180
 FHFDLKPYM KIFNQSADIM HAKWRHLAEG SAVSLDMFEH ISLMTLDSLQ KCVFSYNSNC 240
 QEKMSDYISA IIELSALSVR RQYRLHHYLD FIYRSADGR RFRQACDMVH HFTTEVIQER 300
 RRALRQGGAE AWLKAQKQKT LDFIDVLLLA RDEDGKELSD EDIRAEADTF MFEGHDTTSS 360
 GISMLLFNLA KYPEYQEKCR EEIQEVMKGR ELEBLEWDDL TQLPFTTICI KESLRQYPPV 420
 TLVSRQCTED IKLPDGRIP KGIICLVSIY GTHHNPTVWP DSKVYNPYRF DPDNPQQRSP 480
 LAYVPSFAGP RNCIGQSFAM AELRVVVALT LLRFRLSVDR TRKVRKPEL ILRTENGLML 540
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 Coding sequence: 252..1772

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 TAACTCAGAG GCCAGTGTGA TGGGAGTTCC TCCACTCAGC ACCTCTCCCC TGTAACACAG 180
 CCTGTGGGG GCAAAAGGGC TTGGGAACGG TTGCTGTCT TTTCTCTCT GCGTAATTTT 240
 CACTTTCAAT CATGATAATG TCGAACACGC ACAAAGCTCG GCTGGAACGC CGGGTCACTG 300
 GCTCAACCAA CCGGTGGCGT TTGCCCAAAC AGCCTTTCTC TGGGGACCTG CTCTCACTTT 360
 CCCAGATGTC CAAGGCTCTG AGCATAGACT TTGAGGAAGC TTTGAGGAAC CCAGACAGGT 420
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 AAAAATCCCC TGCAAGAGG ATCATCATTT CCTTGAAGAT CAATGACCCA CTGGTCACTA 720
 AAGTCGCTCT CGCCACGGCC CTGAAGAACC TCTACATGAG TGAGGTGGAG ATTAACCTGG 780
 AAGACCTACT GGGAGTGCTG GCTTCGCCCC ACATCCTCCA GTTCAGTGGC CTGTTCCTAA 840
 GGTGGGTGGA TGTGATGATA GCCAGACTCA AGCCAAGCAC CATCAAGAAA TTCTACGAGG 900
 CCGGCTGCAA GTACAAGGAA GAGCAGCTCA CCACCGGCTG CGAGAAGTGG CTGGAATAGA 960
 ACTTGTGTCC TCTAGGGGGG ACGCAGATCC ACCTCCACAA AATCCACAG GACCTGTCTC 1020
 ACAAGTGTCT GAAGTCCCCC AGGTTATTTA CCTTAGTGA ATTCCATCT CTGAAAACAA 1080
 TGCTTTTGTG GGTCTTCTTG CAACTGAAT ACAAAGATTCA GGCAATTCCG ACTTATGAAA 1140
 CGGTGATGAC ATTTTITTAAG AGCTTTCCTG AGAAGTGTG CTCTCTGGAC CGGGACATAG 1200
 GAGCGAGCTT GAGGCGGCTC TTCTCTGCT TGCGTCTGCA CGGCATCACC AAAGGCAAGG 1260
 ATCTGAGGAT GCTGCGGCAC CTAACTTCT TCCAGAGTCT ATGGCTCGAC CAGGTACAG 1320
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 CCAAGTCTAT CTGCAAAAGC CATACCTTGA AAATCCAAAC TGTGGGCATC CCAATCTATG 1740
 TAAATTTTGC ATTCACTTTC CCAGCATCTT GACAGTTTCC AGAAGAATCT ATGGGATTTT 1800
 CCCCCACTG GTCTGCATAA AAGAAAATAA AATGACATAA AAGGGAGC

Seq ID NO: 169 Protein sequence
 Protein Accession #: BAB71658.1

1 11 21 31 41 51
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 RELEELLRAQ SPKTKKESP AKRIIISLKI NDPLVTKVAF ATALKNLYMS EVEINLEDLL 180
 GVLASAHILQ FSGLPQRQVD VMIAARKPST IKKPYRAGCK YKEEQLTTGC EKWLEMLNLP 240
 LGGTQIHLHK IPQDLHLKVL KSPRLFTFSE FHLLKTMLLW VFLQLNYKIQ AIPTYETVMT 300
 FPKSPFENCC FLDRDIGRSL RPLFLCLRLH GITKGKOLEV LRHLNFFPES WLDQVTNHY 360
 HALENGDMV HLKDLNTQAV RFGLLFNQEN TTYSKTIALY GFFPKIRGLK HDTTYSYFYM 420
 QRIKHTDLES PSAVYBNHV SLRAARLVKY EIRAEALVDG KWQEFRTNQI RQKPLTTSS 480
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GGTGTGGGTG  CCGCACTCTG  CCGCCGCCGG  TCCATGGTCC  TCACGTACCT  GGTGCTCATG  300
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ATGGTGTCCA  ACCCATCCCT  GATCACCAG  CAGATGCTGA  CCTTCTACAG  CGCGGACACC  420
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GAGGTGGTGT  TCCCTGGCC  CCCACTGTGC  TGTGCGCGGA  CGGGAAACTT  CATCCCCCTC  600
AACGAGGAGG  GCTGCGCCT  GGGGCACATG  GACTACCTGT  TCACCAAGGG  CTGCTTCGAA  660
CACATCGGCC  ACGCCATCGA  CAGCTACAG  TGGGGTATCT  CGTGGTTTGG  GTTTGCCATC  720
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Seq ID NO: 171 Protein sequence
Protein Accession #: NP_008931.1

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MVSNPISLITK QMLTFYSADT DQGQELTRLW DRVMIEQECC GTSGPMDWNV FTSAFRAATP 180
EVVFPNPPFLC CRTGNFIPL NEBGCRLGHM DYLFKGCPEF HIGHAIDSYT WGISWFGFAI 240
LMWTLFVMLI AMYFYTML

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Seq ID NO: 172 DNA sequence
Nucleic Acid Accession #: NM_006760.1
Coding sequence: 39..593

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ACATCTCAAG CCTCTCTGGT CTGCTGTCCC CGGCGCTAAC GGAGAGCCTG CTGGTTGCCT 180
TGCCCCCCTG TCACCTCACA GGAGGCAATG CCACACTGAT GGTCCGGAGA GCCAATGACA 240
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GTGTGGTGGA CAGTGGTGTG GGCTTCACAG TCACTCGGCT CAGTGATATC CAGGTGACAA 360
ACCTCGTGCC AGGAACCAAA TTCTACATT CTACCTAGT GAAGAAGGGG ACAGCCACTG 420
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Seq ID NO: 173 Protein sequence
Protein Accession #: NP_006751.1

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Seq ID NO: 174 DNA sequence
Nucleic Acid Accession #: Bos sequence
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25 Seq ID NO: 175 Protein sequence
 Protein Accession #: Eos sequence

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Seq ID NO: 177 Protein sequence

Protein Accession #: BAB21525.1

1 11 21 31 41 51 60
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 QVTENTTEKA ATYHVDRSGN VHHQFQKLLT EFNKSTDAYE LKIANKLFGE KTYQFLQEYL 120

DAIKKFYQTS VESTDFANAP EESRKKINSW VESQTNEKIK NLFDPGTIGN DTTLVLVNAI 180
 YFKGQWENKF KKENTKEEFK WPNKNTYKSV QMMRQVNSFN FALLEDEVQAK VLEIPYKGD 240
 LSMIVLLFNE IDGLQKLEEK LTAELKMENT SLQNMRETCV DLHLPRPKME ESYDLKDTLR 300
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Seq ID NO: 178 DNA sequence
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 Coding sequence: 50..1240

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 GTTCTGGAAA TCCCATTAAT TGGACATGAT CCAGTTACAC GAGTCTGTCT CAATGGACCA 240
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 TGGCTCCCCA CCACAGAACT TCACTGTCTT CTTCGACACT GGCTCCTCCA ACCTCTGGGT 360
 CCCCTCTGTG TACTGCACTA GCCCAGCCTG CAAGAGGCAC AGCAGGTTCC AGCCTTCCCA 420
 GTCCAGCACA TACAGCCAGC CAGGTCAATC TTCTCCATT CAGTATGGAA CCGGGAGGCT 480
 GTCCGGGATC ATTGGAGCCG ACCAAGTCTC TGTGGAAGGA CTAACCGTGG TTGGCCAGCA 540
 GTTTGGAGAA AGTGTACAG AGCCAGGCCA GACCTTTGTG GATGCAGAGT TTGATGGAAT 600
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 GATGGCTCAG AACCTGGTGG ACTTGGCGAT GTTTCTGTG TACATGAGCA GTAACCCAGA 720
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 CCTGAATTGG TCCTCAGTCA CCAAGCAAGC TTAAGTGGAG ATTGCACTGG ATAACATCCA 840
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 ACTCCACCCA CCGTCTGATG GGAGGAATTA CGTTATACAT TCATATTTTG TATTGATTTT 1500
 TGATTATGAA AATCAAAAAT TTTCACTT GATTATGAAA ATCTCCAAAC ATATGCACAA 1560
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 TTTGAAATGT CTGTAAGTCT CTTTCCATCT ACAGAGTTTA GCACATTTGA ACGTTGCTGG 1920
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Seq ID NO: 179 Protein sequence
 Protein Accession #: NP_001901.1

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 SMDQSAKEFL INYLDMEYFG TISIGSPFON PTVIFDTGSS NLWVPSVYCT SPACKTHSRF 120
 QPSQSSTYSQ PQQSFPFIQY TGLSLGIIGA DQVSVEGLTV VQOQFGBSVT EPGQTFVDAE 180
 FDGILGLGVP SLAVGVVTPV FDNMMQNLV DLPMPFSVYMS SNPECGAGSE LIFGGYDHSR 240
 FSGSLNWVPV TKQAYQWIAL DNIQVGGTVM FCSBGCQAIIV DTGSLITGP SDKIKQLQNA 300
 IGAAPVDGEY AVECANLNVN PDVTFTINGV PYTLSPATYT LLDVFDGMQF CSSGFGGLDI 360
 HPPAGPLWIL GDVFIRQFYS VFDRGNRRVG LAPAVP

Seq ID NO: 180 DNA sequence
 Nucleic Acid Accession #: NM_018058.1
 Coding sequence: 319..1575

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 TACACCGACA AGTGTGTTCA GTTCCGCAAT AACCGGTGGG AAGACATCCT GAGCGATGAG 180
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 AGAAAGGGCT TCCAGCGCTA CTCTATCTAC ATTGCCAATT ACGCCCTACG TAATGTGGGC 300
 CCTGATGCCC TCATTGAAAT GGACCCCTGAG GCCAGTGACC TCTCCCGGGG CATTCTGGCG 360
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 AACATTGCCT ACCGAGCTC CTCAGCCAAC GGCCTCTTCC GCGTCATCCG TAGAGAGCAC 840
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Seq ID NO: 181 Protein sequence
Protein Accession #: NP_060528.1

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FRDIASPKFS MPSPVRTVIT ADFDNDQBLE IFNNIAYRS SSANRLFRVI RREHGDPLIE 180
ELNPGDALEP EGRGTGGVVT DFDGDMLDL ILSHGESMAQ PLSVFRNGQG FNNWLRVVP 240
RTRVGAFARG AKVLYTKKS GAHLRIIDGG SGLCEMEPV AHFGLGKDEA SSVEVTPFDG 300
KMSVRNVASG EMNSVLEILY PRDEDTLQDP APLETPMNAS SSHSCALET SYPVSTPMET 360
GAGPTRSAVG ATSPTRMAQP AWGLSASHRA PAPPPPPPLL PLPLLLPLLE LPLLHRSS

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Seq ID NO: 182 DNA sequence
Nucleic Acid Accession #: AJ279016
Coding sequence: 1..1962

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GACCGGCAGG GGAACGCCAT CGGGGTGACA GCCTGCGACA TCGACGGGGA CGGCCGGGAG 360
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ATTGAATGAG ACCCTGAGGC CAGTGACCTC TCCCGGGGCA TTCTGGCGCT CAGAGATGTG 660
GCTGCTGAGG CTGGGGTCAG CAAATATACA GGGGGCCGAG GCGTCAGCGT GGGGCCCATC 720
CTCAGCAGCA GTGCTCGGGA TATCTTCTGC GACAATGAGA ATGGGCCCTAA CTTCTTTTC 780
CACAACCGGG GCGATGGCAC CTTTGTGGAC GCTGCGGCCA GTGCTGTGTT GGAACGACCC 840
CACCAGCATG GCGAGGTGTG CGCCCTGGCT GACTTCAACC GTGATGGCAA AGTGACATC 900
GTCTATGGCA ACTGGAATGG CCCCCACCGC CTCATCTGCG AAATGAGCAC CCATGGGAAG 960
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CTCGCCAGT CACCGGGCCC CCGCCCCACC ACCCCCACCG CTGCTGCTGC CACTGCCGCT 1860
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CCAGCGGATG GAGTCCAGCA GGGGAGTGGG AAGTGGGCT TGTGCTGCTG CCTAGACAGT 2040
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CCTGAGTTCA AATCCTGATT CAGGAACCTA CAAAGCTATG TGACCTTACA CCAGTCACTT 2340
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Seq ID NO: 183 Protein sequence
Protein Accession #: CAC08451

5 1 11 21 31 41 51
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EIYFLNTNNA FSGVATYTDK LFKFRNMRWE DILSDEVNVA RGVASLFAGR SVACVDRKGS 180
GRYSIYIANY AYGNVGPDAL IEMDPEASDL SRGILALRDV AAEAGVSKYT GGRGVSVGPI 240
10 LSSASDIFC DNENGNPFLF HNRGDGTFFVD AAASAGVDDP HQHGRGVALA DFNDRGKVDI 300
VYGNWNGPIR LYLQMSHTGK VRFRIASPK FSPSPVVRTV ITADFNDQDE LEIFFNNIAY 360
RSSSANRLFR VIRREHGDPL IEELNPGDAL EPEGRGTGGV VTFDFDGDML DLYLSHGESH 420
AQLPSVFRGN QGFNNNWLVR VPRTRFGAFA RGAKVVLYTK KSGAHLRIID GSGGYLCME 480
PVAHFLGLKD EASSVEVTFW DGKMSVRNVA SGEHNSVLEI LYPRDEDTLQ DPAPLECGQG 540
15 FSQQENGHCN DTNECIQFPF VCPDRKPVCV NTYGSYRCRT NKKCSRGYEP NEDGTACVGT 600
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Seq ID NO: 184 DNA sequence
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TCACCTACT ACGCGCTGCG GGACCGGCG GGGAAACCCA TCGGGTCA AGCCTGCGAC 240
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35 CTGAGCGATG AGGTCAACGT GGCCCGTGGT GTGGCCAGCC TCTTTGCGG ACGCTCTGTG 660
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40 GGAGGAGACC CAGAGGAGGC AGATGAGGAG CACAGTGGGG ATGGAAGCAC CAGCCAACTG 960
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70 TCACCGAGT TCTCCATGCC CTCCCTGTG CGCACGCTCA TCACCGCGA CTTTGACAT 2760
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CTCTCTCGAT GCTCCATCCT GGCTGTGGC TCTTCACTCT TGACAGCTGG TGGGAGGAAC 2880
GGTCAGGGAG AAGGTTTAA AATCAGAAG GAGGGGTTC CAGGGCCAGG GGGTCAGGCC 2940
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75 AGAGGCTGTG GGAATGCAAG GCAAGGCTG GCAAGGAGC CGGCTCTGCT TATTGACGG 3060
AAAGGGAAGG GAAATGTGGC CCAAGTGTG CCCAGAACCC AAGCGCCACA AGATACAAAG 3120
CCACTACTC ACAAAAGGG GCTACAGGG CCAATCACTA CCAGGAAAG GGGCTACGGG 3180
GTCCAATCAC TACCAGAAA AGGGGCTACG GGGTCCAATC ACTACAGGAA AAGGGGCTA 3240
CGGGGTCCAA TCACTACAG GAAAGGGGGC TACGGGTGCC AATCACTACC AGGAAAGGG 3300
80 GCTACGGGT CCAATCACTA CCAGGAAAG GGGCTACAGG GTCCAATCAC TACCAGGAAA 3360
AGGGGTACG GGTCTCAATC ACTACAGGAA AAGGGGCTA CAGGGTCCAA TCACTACCA 3420
AGAAAGGGG TACGGGCTCC AATCACTACC AGGAAAGGG GCTACGGGT CCAATCACTA 3480
CCAGGAAAG GGGCTACAG GTCCAATCAC TACCAGGAAA AGGGGCTACG GGGTCCAATC 3540
ACTACAGGAA AAGGGGCTA CGGGCTCCAA TCACTACAG GAAAGGGGG TACGGGTGCC 3600
AATCACTACC AGGAAAGGG GCTACAGGG CCAATCACTA CCAGGAAAG GGGCTACAGG 3660

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GTCCAATCAC TACCACAGAA AGGGGCTACG GGCTCCAATC ACTACCAGGA AAAGGGGCTA 3720
 CGGGGTCCAA TCATCTACCAG GAAAAGGGGC TACGGGCTCC AATCACTACC AGGAAAAGAG 3780
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 GGCGGGGCA CAGGGGGTGT GGTGACCGAC TTCGACGGAG ACGGGATGCT GGACCTCATC 4020
 TTGTCCCATG GAGAGTCCAT GGTGACCGG CTGTCCGTCT TCGGGGGCAA TCAGGGCTTC 4080
 AACAACTACT GGTGCGAGT GGTGCCACGC ACCCGTTTGG GGGCCTTTGC CAGGGGAGCT 4140
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 GGCTACTGTT GTAGATGGA GCCCGTGGCA CACTTTGGCC TGGGGAAGGA TGAAGCCAGC 4260
 AGTGTGGAGG TGACGTGGCC AGATGGCAAG ATGGTGAGCC GGAACGTGGC CAGCGGGGAG 4320
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 GGAAGCTACA GGTGCCGGAC CAACAAGAG TGCAGTGGG GCTACGAGCC CAACGAGGAT 4560
 GGCACAGCTT GGTGGGTATC TGAGCTAGGC TCTAGGCATA CAATGACGTG GAAACCAAGG 4620
 CCCAAAAAGG AGCTGCAACT TTCCCAAGGC ATCTGCACCC CGTCTGGTCT CTTTTTCTCT 4680
 CCGGTTTGGC GGTGCTCTCT CAAAAGAGCT CAGCTCCAGG CTGCTCCAG CACCTTCTCT 4740
 CAGAAAGTTC CAGGTATTCC AGAAGCCCAA GTGTATGAAC AAGATCAGGA ATAA

Seq ID NO: 185 Protein sequence
 Protein Accession #: FGENESH

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1 11 21 31 41 51
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 SPYYALDRQ GNAIGVTACD IDGDGREEIY FLNTNNAFSG HSSSAQVPSG LHRNRPVLKP 120
 PPTTFAGLLG LPPLSGRDPS SSLGQASPDG RQGERVPVPC CRGGLRPTHE PEPFLLRPKS 180
 GVATYTDKLF KFRNNRWEDI LSDEVNVARG VASLFAGRSV ACVDRKSGSR YSIYIANYAY 240
 GNVGPDALE MDPEASDLR GILALRDVAE EAGVSKYTEG FSHTASPSIG EISGRTEERE 300
 GGDPEEADER HSGDGSTSQL CRLGWKDGQF KEBAAALVEE QREAGAAGVP RGRVRTALQT 360
 SKSHLADKNL FGPPCYYSVC APSPAHPFPA RQAPQHYVPA PLVTQLMTHG RLAKGLARSV 420
 PHRAPGMDP KCKGRHAEPG LMAEALGAWP ALSTTVVPGG LRSWEESRQK GQAMSRCLAR 480
 ELGGPWSQAT QHLPARELYD LGEPPILOQT DGDPPRRRDS PKVTQECHLV ATPALGGLLE 540
 GPGRVAKEEI GRETGAVGRP LSHPLVPNFP SCLRPLEAGT VPGAALPNP GNWVLDMAKA 600
 LAWNQMEKEE KIHGDHEPR FRLRKAREAE FPGSSSEPL LQPPSGLRGS PVLQVGLGLA 660
 SATHCGSMSP LGGRGVSVGP ILSSASDIF CDNENGPNFL FHNRGDGTFF DAAASAERRL 720
 APIVHLKYHL CRDPPHSLCH LAETGPSSSC CPWHARLLQA PHCHHGLSMS FTRTGSRFYS 780
 FLTQGLASSA HRRTLSLQGS QGAPPCLLAR APCVLGSLIP TAYYIVLWSA IPESLMTHSY 840
 LSSERVNVGV DDPHQHGRGV ALADFNDRDG VDIVYGNWNG PHRLYLQMSH HGKVRFRDIA 900
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 KKGNNVQSV PRTQAPQDTK PHYHKKLQGG PITTRKRGYQ VQSLPGKAT GSNHYQEKGL 1080
 RGPITTRKRG YGVQSLPGK ATGSNHYQEK GLQGPITTRK RGYQLQSLG KGATGSNHYH 1140
 RKGLRAPITT RRGVGVQSL PGKATGSMH YQEKGLRGP I TTRKRGYGLQ SLPGKATGS 1200
 NHYQEKGLQG PITTRKRGYR VQSLPGKAT GSNHYQEKGL RGPITTRKRG YGLQSLPGKE 1260
 AMGSNHYQEK GLRAPITTRK RGYGVQSLPG KGATGSNVIR REHGDPIEE LNPDALEPE 1320
 GRGTGGVTTD FGDGMLDLI LSHGESMAQP LSVFRGNQGF NNNWLRVVR TRFAGAFARGA 1380
 KVVLYTKKSG AHLRIIDGGS GYLCEMEPVA HPGLGKDEAS SVEVTNPDGK MVSERNVASGE 1440
 MNSVLEILYP RREDTLQDPA PLECGGQFSQ QENGHCMDTN ECIQPPFVCP RDKPVCVNTY 1500
 GSYRCRTNKK CSRGYEPNED GTACVGTELS SRHTMTWKPR PKKELQLSQG ICTPVWSFPL 1560
 PGCRLLLRRA QLQAAPSTLL QKAPGIPEAQ VYEQDQE

Seq ID NO: 186 DNA sequence
 Nucleic Acid Accession #: NM_000584.1
 Coding sequence: 75..374

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75
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1 11 21 31 41 51
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 GCATAAGAC ATACTCCAAA CCTTCCACC CCAAAATTAT CAAAGAACTT AGAGTGATTG 240
 AGAGTGGACC ACACCTGGCC AACACAGAAA TTATTGTAAA GCTTCTGAT GGAAGAGAGC 300
 TCTGTCTGGA CCCCAGGAAA AACTGGGTGC AGAGGGTGTG GGAGAAGTTT TTGAAGAGGG 360
 CTGAGAATTC ATAAAAAAT TCATTCTCTG TGGTATCCAA GAATCAGTGA AGATGCCAGT 420
 GAACTCTCAA GCAATCTAC TTCAACACTT CATGTATTGT GTGGGTCTGT TGTAGGTTG 480
 CCAGATGCAA TACAAGATTC CTGGTTAAAT TTGAATTTC GTAAACAATG AATAGTTTTT 540
 CATTGTACCA TGAATATCC AGAATATCT TATATGTAAA GTATTATTA TTTGAATCTA 600
 CAAAAACAA CAAATATTT TTAATATAA GGATTTCTCT AGATATTGCA CGGAGAAATA 660
 TACAAATAGC AAAATTGAGC CAAGGGCCAA GAGAATATCC GAATTTAAT TTCAGGAATT 720
 GAATGGGTTT GCTAGAAATG GATATTGAA GCATCACATA AAAATGATGG GACAATAAAT 780
 TTTGCCATAA AGTCAAAATT AGCTGGAAT CCTGGATTTT TTTCTGTAA ATCTGGCAAC 840
 CCTAGTCTGC TAGCCAGGAT CCACAAGTCC TGTGTCCAT GTGCCTTGGT TTCTCCTTTA 900
 TTTCTAAGTG GAAAAGTAT TAGCCACCAT CTACCTCAC AGTGATGTTG TGAGGACATG 960
 TGGAAAGCAT TTAAGTTTTT TCATCATAAC ATAAATTATT TTCAAGTGA ACTTATTAAC 1020
 CTATTTATTA TTTATGTATT TATTTAAGCA TCAAAATATT GTGCAAGAA TTGGAATAAT 1080
 AGAAGATGAA TCATTGATTG AATAGTTATA AAGATGTTAT AGTAAATTTA TTTTATTTA 1140
 GATATTAAAT GATGTTTTAT TAGATAAATT TCAATCAGGG TTTTATAGAT AAACAAGAA 1200
 ACATTTGGGT ACCCAGTTAA ATTTTCAATT CAGATAAACA ACAATAATT TTTTAGTATA 1260
 AGTACATTAT TGTATTCTG AAAGTTTTAA TTGAATAAC AATCCTAGT TGATACTCCC 1320
 AGTCTTGCA TTGCCAGCTG TGTGGTAGT GCTGTGTTGA ATTACGGAAT AATGAGTTAG 1380
 AACTATTAAA ACAGCCAAAA CTCCACAGTC AATATTAGTA ATTCTTGCT GGTGAAACT 1440
 TGTTTATTAT GTACAAATAG ATTCTTATA TATTATTAA ATGACTGCAT TTTTAAATAC 1500

AAGGCTTTAT ATTTTAACT TTAAGATGTT TTTATGTGCT CTCCAAATTT TTTTACTGT 1560
 TTCTGATTGT ATGGAATAT AAAAGTAAAT ATGAACATT TAAATATAA TTTGTTGCA 1620
 AAGTAAAAAA AAAAAAAA

5 Seq ID NO: 187 Protein sequence
 Protein Accession #: NP_000575.1

1 11 21 31 41 51
 10 MTSKLAVALL AAFLLISAALC EGAVLPRSAK ELRCQCIKTY SKPFHPKFIK ELRVIESGPH 60
 CANTBIIVKL SDGRELCLDP KENWVQRVVE KFLKRAENS

Seq ID NO: 188 DNA sequence
 Nucleic Acid Accession #: NM_003661.1
 Coding sequence: 1..1152

1 11 21 31 41 51
 20 ATGAGTGCAC TTTTCCTTGG TGTGGGAGTG AGGGCAGAGG AAGCTGGAGC GAGGGTGCAA 60
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 GCTGCTGGCA CCATGGACCC AGAGAGCAGT ATCTTTATTG AGGATGCCAT TAAGTATTTC 180
 AAGGAAAAAG TGAGCACACA GAATCTGCTA CTCCTGCTGA CTGATAATGA GGCCTGGAAAC 240
 GGATTCTGTG CTGCTGCTGA ACTGCCCAGG AATGAGGCAG ATGAGCTCCG TAAAGCTCTG 300
 25 GACAACTCTG CAAGACAAAT GATCATGAAA GACAAAAACT GGCACGATAA AGGCCAGCAG 360
 TACAGAAACT GGTTCCTGAA AGAGTTTCCT CGGTTGAAAA GTGAGCTTGA GGATAACATA 420
 AGAAGGCTCC GTGCCCTTGC AGATGGGGTT CAGAAGGTCC ACAAGGCAC CACCATCGCC 480
 AATGTGGTGT CTGGCTCTCT CAGCATTTC TCTGGCATCC TGACCTCGT CGGCATGGGT 540
 CTGGCACCTT TCACAGAGGG AGGCAGCCTT GTACTCTTGG AACCTGGGAT GGAGTTGGGA 600
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 30 ACACAAGCCC AAGCCACGA CCTGGTCATC AAAAGCCTTG ACAAAATGAA GGAGGTGAGG 720
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 ACACGAGGCA TGGGAAGGA CATCGTGCC CTCAGACGAG CCAGAGCCAA TCTTCAGTCA 840
 GTACCGCATG CCTCAGCCTC ACGCCCCCGG GTCACTGAGC CAATCTCAGC TGAAAGCGGT 900
 GAACAGGTGG AGAGGGTTAA TGAACCCAGC ATCCTGGAAA TGAGCAGAGG AGTCAAGCTC 960
 35 ACGGATGTGG CCGCTGTAA GCTCTTCTT GTGCTGGATG TAGTCTACCT CGTGTACGAA 1020
 TCAAAGCACT TACATGAGGG GGCAGAGTCA GAGACAGCTG AGGAGCTGAA GAAGGTGGCT 1080
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 CAAGAACTGT GA

40 Seq ID NO: 189 Protein sequence
 Protein Accession #: NP_003652.1

1 11 21 31 41 51
 45 MSALFLGVGV RAEAGARVQ QNVPSGTDG DPQSKPLGDW AAGTMDPSS IFIEDAIKYF 60
 KEKVSTONLL LLLTDNEAWN GFVAAELPR NEADELRKAL DNLARQMIMK DKNWHDKGQQ 120
 YRNWFLKEPP RLKSELEDNI RRLRALADGV QKVHKGTTIA NVVSGSLIS SILTLVGMG 180
 LAPFTGGSL VLLFPGMELG ITAALTGITS STMDYGKKWM TQAQADHLVI KSLDKLKEVR 240
 BFLGENISNF LSLAGNTYOL TRGIGKDIRA LRRARANLQS VPHASASRPR VTEFISAESG 300
 50 EQVERVNEPS ILEMSRGVKL TDVAPVSPFL VLDVVVLVYE SKHLHEGARS ETAEELKKVA 360
 QELBEKLNIL NNNYKILQAD QEL

Seq ID NO: 190 DNA sequence
 Nucleic Acid Accession #: NM_014452.1
 Coding sequence: 1..1968

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 GCCACAGCCA CGATGATCG GGGCTCCCTT CTCCTGCTTG GATTCCTTAG CACCACCACA 120
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 ACCGGCCAGG TGCTAACCTG TGACAAGTGT CCAGCAGGAA CCTATGTCTC TGAGCATTGT 240
 ACCAACACAA GCCTCGCGGT CTGCAGCAGT TGCCCTGTGG GGACCTTTAC CAGGCATGAG 300
 65 AATGGCATAG AGAAATGCCA TGACTGTAGT CAGCCATGCC CATGGCCAAT GATTGAGAAA 360
 TTACCTTGTG CTGCCTTGAC TGACCGAGAA TGCACTTGCC CACCTGGCAT GTTCCAGTCT 420
 AACGCTACCT GTGCCCCCA TACGGTGTGT CCGTGGGTT GGGGTGTGG GAAGAAAGGG 480
 ACAGAGACTG AGGATGTGCG GTGTAAGCAG TGTGCTCGGG GTACCTTCTC AGATGTGCCT 540
 TCTAGTGTGA TGAATGCAA AGCATACACA GACTGTCTGA GTCAGAACT GGTGGTGATC 600
 AAGCGGGGGA CCAAGAGAGC AGACAACGTC TGTGGCACAC TCCCGTCTT CTCCAGCTCC 660
 70 ACCTCACCTT CCGCTGGCAC AGCCATCTTT CCAAGCCCTG AGCAGATGGA AACCCATGAA 720
 GTCCTCTCTT CCACTTATGT TCCCAAGGC ATGAATCAA CAGAATCCAA CTCTTCTGCC 780
 TCTGTTAGAC CAAGGTACT GAGTAGCATC CAGGAAGGGA CAGTCCCTGA CAACACAAGC 840
 TCAGCAAGGG GGAAGGAAGA CGTGAAACAG ACCCTCCCAA ACCTTCAGGT AGTCAACCAC 900
 CAGCAAGGCC CCCACACAG ACACATCTGT AAGCTGCTGC GGTCCATGGA GGCCACTGGG 960
 75 GGGAGAAAT CCAGCAGGCC CATCAAGGGC CCAAGAGGG GACATCTTAG ACAGAACCTA 1020
 CACAGCAAT TTGACATCAA TGAGCATTTG CCTGGATGA TTGTGCTTTT CCGTCTGCTG 1080
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 80 CTGTAGCAG CCCAAGTGGG AAGCCAGTGG AAGATATCT ATCAGTTTCT TTGCAATGCC 1320
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 CGAGCTCTGC AGCACTGGAC CATCGGGGC CCCGAGGCC GCCTCGCCCA GCTAATTAGC 1440
 GCCCTGCGCC AGCACCGGAG AACCGATGTT GTGGAGAAGA TTCGTGGGCT GATGGAAGAC 1500
 ACCACCCAGC TGGAAACTGA CAAACTAGCT CTCCTGATGA GCCCAGGCC GCTTAGCCCG 1560

5 AGCCCCATCC CCAGCCCCAA CGCGAAACTT GAGAATTCOG CTCTCCTGAC GGTGGAGCCT 1620
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 GACTCTACAT CCAGCGGCTC CTCCGCGCTG AGCAGGAACG GTTCTCTTAT TACCAAAGAA 1740
 AAGAAGGACA CAGTGTGTGG CGAGGTACGC CTGGACCCCT GTGACTTGCA GCCTATCTTT 1800
 GATGACATGC TCCACTTTCT AAATCCTGAG GAGCTGCGGG TGATTGAAGA GATCCCCCAG 1860
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 CAGACCTTCC TGGACTCTGT TTATAGCCAT CTTCCTGACC TGCTGTAG

10 Seq ID NO: 191 Protein sequence
 Protein Accession #: NP_055267.1

15 1 11 21 31 41 51
 MGTSPPSSSTA LASCRIARR ATATMIAGSL LLLGFLSTTT AQPEQKASNL IGYRHHVDRA 60
 TGQVLTCDCK PAGTYVSEHC TMTSLRVCSS CPVGTFTRHE NGIEKCHDCS QPCPWPMEIK 120
 LPCAALTDRD CTCPPGMFQS NATCAPHTVC PVGWGVRKKG TETEDVRCKQ CARGTFSDVP 180
 SSVNMCKAYT DCLSQNLVVI KPGTKETDNV CGTLPSPFSSS TSPSPGTAIF PRPEHMETHE 240
 VPSSTYVPKG MMTESNESSA SVRPKVLSSI QEGTVPDNTS SARGKEDVNK TLPNLQVVMH 300
 QQGPPIHRHIL KLLPSMEATG GEKSSTPIKG PKRGHPRQNL HKHFDINEHL PWMIVLFLLL 360
 20 VLVVIVVCSI RKSRTLKKG PRQDPSAIVE KAGLKKSMTP TQNREKIYY CNGHGIDILK 420
 LVAAQVGSQW KDIYQFLCNA SEREVAAFSN GYTADHERAY AALQHWITRG PEASLAQLIS 480
 ALRQHRNDV VEKIRGLMED TTQLETDKLA LPMSPSPISP SPIPSPNARK ENSALLTVEP 540
 SFQDKNGGFF VDESEPLLRC DSTSSGSSAL SRNGSFITKE KKDVTLRQVR LDPCDLQPIF 600
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25 Seq ID NO: 192 DNA sequence
 Nucleic Acid Accession #: XM_044533
 Coding sequence: 238..2751

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 35 AGTCGCGCGC AGCCACCTGA GCCCGAGCCG CGGACACCG TCGCTCCTGC TCTCCGAATG 240
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 40 CTGTACGTGG GTGCTGAGGA GGCCCTCTTT GCACTCAGTA GCAACCTCAG CTCTCTGCCA 540
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 AGCGGCACTC ACCTGTTTAC CTGTGGCACA GCAGCCTTCA GCCCATGTG TACCTACATC 720
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 45 AAGGGCGGTT GTCCCTTCGA CCCGAATTTT AAGTCCACTG CCCTGGTGGT TGATGGCGAG 840
 CTCTACACTG GAACAGTCAG CAGCTTCCAA GGGAAATGAC CGGCCATCTC GCGGAGCCAA 900
 AGCCTTGGCC CCACCAAGAC CGAGAGCTCC CTCAACTGGC TGCAAGACCC AGCTTTTGTG 960
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 50 TTTTCTCTTA TCTGAGACTG CCAGGAATTT GAGTTCTTTG AGAACACCAT TGTGTCCCGC 1080
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 TCCTTCTCTA AGGCCAGGCT GCTGTGCTCA CGGCCGAGC ATGGCTTCCC CTTCACGCTG 1200
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 60 GATGTCTCTT TCTTGGGACG TGGTGACGGC CGGCTCCACA AGGCAGTGA AGTGGGCCCC 1680
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 CTCTTGACA CCCACAGGGG GCTGCTGTAT GCGGCTTACC ACTCGGCGGT AGTCCAGGTG 1800
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 65 ACCAGGCCGT GGATCCAGGA CATCGAGGGA GCCAGCGCCA AGGACCTTTG CAGCGCGTCT 1980
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 GAGAGGGAAG AGATAGCATG GCATGCAGCA CACACGGCTG CTCAGTTTCA TGGCCTCCCA 3120
 GGGGTGCTGG GGATGCATCC AAGTGGTTG TCTGAGACAG AGTTGGAAAC CCTCACCAAC 3180

5 TGGCCTCTTC ACCTTCCACA TTATCCCGCT GCCACCGGCT GCCCTGTCTC ACTGCAGATT 3240
 CAGGACCAGC TTGGGCTGCG TGCGTTCTGC CTGTCCAGTC AGCCGAGGAT GTAGTTGTTG 3300
 CTGCGCTCGT CCCACCACT CAGGGACCAG AGGGCTAGGT TGGCACTGCG GCCCTCACCA 3360
 10 GGTCTCTGGG TCGGACCCAA CTCTGGACC TTTCAGCCT GTATCAGGCT GTGGCCACAC 3420
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 CAGGGAAGAG ACTGTGCGCT GCCTTCTCTC GTTGTTCGCT GAGAACCCGT GTGCCCTTTC 3540
 CCACCATATC CACCTCGCT CCATCTTTGA ACTCAACAC GAGGAACATA CTGACCCCTG 3600
 GTCTCTCC CAGTCCCAG TTCACCTCC ATCCCTCACC TTCCTCCACT CTAAGGGATA 3660
 TCAACACTGC CCAGCACAGG GGCCCTGAAT TTATGTGTT TTTATACATT TTTAATAAG 3720
 ATGCACTTTA TGTATTITTT TAATAAAGTC TGAAGAATTA CTGTTT

Seq ID NO: 193 Protein sequence
 Protein Accession #: XP_044533.3

15 1 11 21 31 41 51
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 20 SPKGGKDPQR CQNYIKILLP LSGSHLFTCG TAAPSPMCTY INMENFTLAR DEKGNVLLED 180
 GKGRCPDPN FKSTALVVDG ELYTGTVSSF QGNDDPAISRS QSLRPTKTES SLNWLQDPAP 240
 VASAYIPESL GSLQGGDDKI YFFSETGQE FEFFENTIVS RIARICKGDE GGERVLQQRW 300
 TSFLKAQLLC SRPDGDFEFN VLQDVFTLSP SPQDWRDTLE YGVFTSQWHR GTTEGSAVCV 360
 PTMKDQVRVF SGLYKEVNRE TQQWYTVTHP VPTFRPGACI TNSARERKIN SSLQLPDRVL 420
 25 NPLKDHFLMD GQVRSRMLLL QPQARYQOVA VHRVPLHHT YDVLPLGTGD GRHLKAVSVG 480
 PRVHIIEELQ IFSSGQPVQN LLLDTHRGLL YAASHSGVVQ VPMANCSLYR SCGDCLLARD 540
 PYCAWSGSSC KHVSLYQQL ATRPWIDIE GASAKDLCSA SSVVSPSPFP TGEKPCBQVQ 600
 FQPTVNTLA CPLLSNLATR LMLRNGAPVN ASASCHVLPD GDLLLVGTQQ LGEFQWLSLE 660
 EGFQQLVASY CREVEVDGVA DQTEGGGSP VIISTSRVSA PAKGKASWGA DRSYNKEFLV 720
 30 MCTLFVLAVL LPVLFLLYRH RNSMKVFLKQ GECASVHPKT CPVVLPPETR PLNLGLPPST 780
 PLDRHGYQSL SDSPGSRVF TESEKRPLSI QDSFVEVSPV CPRPRVRLGS EIRDSVV

Seq ID NO: 194 DNA sequence
 Nucleic Acid Accession #: NM_022819.1
 Coding sequence: 1..635

35 1 11 21 31 41 51
 | | | | |
 ATGGCAGATG GGGCAAAGGC CAACCCCAAA GGGTTCAAAA AGAAGGTGCT GGATAGATGC 60
 40 TTCTCTGGGT GGAGGGGCC ACCTCTCGGG GCCTCTGTCT CTTCAGAAC CTCACAGTCT 120
 AGCTGGGTA TGAAGAAGTT CTTCACCGTG GCCATCTTGT CTGGCAGCGT TCTGTCCACA 180
 GCTACGCA GCTCTCTCAA CCTGAAGGCC ATGGTGGAGG CCGTCACAGG GAGGAGCGCC 240
 ATCCTGTCTT TCGTGGGCTA CGGTGTCTAC TGTGGGCTGG GGGGCCGTGG CCAGCCCAAG 300
 GATGAGGTGG ACTGTGTCTG CCACGCCAC GACTGCTGCT ACCAGGAAT CTTTGACCAA 360
 45 GGCTGTACCC CCTATGTGGA CCACTATGAT CACACCATCG AGAACACAC TGAGATAGTC 420
 TGCAGTGACC TCACACAGAC AGAGTGTGAC AAGCAGACAT GCATGTGTGA CAAGAACATG 480
 GTCTGTGACC TCATGAACCA GACGTACCGA GAGGAGTACC GTGGCTTCTT CAATGTCTAC 540
 TGCCAGGCCC CCACGCCCAA CTGCAGCATC TATGAACCGC CCCCTGAGGA GGTACACCTG 600
 AGTCACCAAT CCCAGCGGCC CCCCGCCCCC CCTTAG

Seq ID NO: 195 Protein sequence
 Protein Accession #: NP_073730

50 1 11 21 31 41 51
 | | | | |
 MADGAKANPK GFKKKVLDR C FSGWRGPRFG ASCPSRTSRS SLGMKKFFTV AILAGSVLST 60
 55 AHGSLNLLKA MVEAVTGRSA ILSFVGYGCV CGLGGRGQPK DEVDWCHAH DCCYQELFDQ 120
 GCHPYVDHYD HTIENNTIIV CSDLNKTECD KQTCMCKNM VLCMLNQTYR EBYRGFLNIV 180
 CQGTPTNCISI YEPPEEVT C SHQSPAPPAP P

Seq ID NO: 196 DNA sequence
 Nucleic Acid Accession #: XM_028196.1
 Coding sequence: 1315..1791

65 1 11 21 31 41 51
 | | | | |
 GGCATTGATG CTGTGTGCGC GTGCGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT 60
 GTGTGTGTGT GTCTGAGATC ATGGCAGGGT CCCTTCTGT CTGTCTCTT GCTCTGCCCC 120
 AGACTGGGG GCTGCAGAGG TGAGGGTATC TGGCTCAAC AGCTGCTTAT TCCGATGGG 180
 70 ATGGCCTGGG CTGGGCCCTT GAGGCCAGGC TGACTTGGAC ATGGCAAGAG GGGTCCAGG 240
 CTCTTGTGGG CAAGCAGGG GAGGCGCCAA TGTGGAGGAA CAGAGTCTCC TGGCTGGCTG 300
 CTGCTCTCTG GAGCGGGTGG AGTCAGGGA GAGCTGAGCT GGGGAGTCAC CCTGGGCTG 360
 GGGTCACCGT AGGCCCATG TAGCACCTG GTTCCCTGCT CTGTAGGTGA CAGGAGCCAG 420
 CCAGCCAGG TGTGCTCCCT CCCAGGCC TAGGCAGGCG GGTACAGGG CCAGCAGCTG 480
 75 CGCCCGCCCC ACTTCTCTT CCACCCACAT GCCGAAGGGT GGCAGGCAG GCAGTGGAC 540
 GAGTCCAGG AGCGGTGAG TCAGTGTGTG TGAATGTTT TGGCCGCTCC CAGCTGCACC 600
 CTGCCCTTAC CTGCCACCA CTACCTTCA TCTCAGGCG CTGCGGCCCT GAGCCCTGCT 660
 CAGGAATGCA CCTTAGCCC AGGCCTGCTC AGTGAGCTCC GCCGACAGCC AGCCCTGCTC 720
 CTCCGCGCAT GACCCGCTG ACCCCTCTG GCTTCCAAGT TCCTGGGGGC TGCACTGAAC 780
 80 ATGCTCCACC TGCATGGCTG GCAAACCATG GTGGGCCCA GCTGTGGTGC GTGCTGGGGT 840
 AGAGGCAAGG AAGTATGGG ACCGCAGAGA TGAGACCCC AGGATGAGA TGGGACCCC 900
 AGGCAGGGCC CAGGGTCCAG GGGCCAGGAG AGAGAAGCAG GGAGGAGAG AGCTTCTTGG 960
 TGGAGGACGC ATCTACAGT GGGGCAAGG GTGCTCTGAG GTCCGGTGAA GGCAGGGACT 1020
 AGGCTGCCCA GGCCTGCTT GCTTGGCTG GGTGGGGGC TGCTGGGAGG TGGCTGGGAG 1080
 GCTGGGCTG GGCAGCTAAG CTGAGGCTTT GGCCAGGGTC CAGAGCCTCC CTCCTTCCAG 1140

5 CTTCCTGCTG CACAGAACCC TCGCCCTGCG CCACCCCGTG CTGCCTCCTT GCCCTGGCAG 1200
 ACCCAGCACT GGCTGCTGCT AGTCAGATGG GGTAGCGGGG AGGGGCCCGA GGGGCCACCC 1260
 TCCAGCTGA CCAGGCTTCC TGGCCCGCTT CTTCCAAACC AGCAGGGTAG AAAGATGGGG 1320
 CACCCACAGC TCTCTCCAG TGCCTCGGCC CCAGCTGGCA CCACAGCTAT ACCTGGGCTT 1380
 ATTCCAGACC TTGTCCGCGG GACCCCTGT GAGTTGTGGG ATTCCCAAGA GGGGTGTGGG 1440
 GATAACCCAG CCAAGTGGGG GCTGCAGCTG TCCACAGATG CACTCAGCCT GGCCTCTACC 1500
 CCAGGGCCCC GCTGGGCTCT CATTGCCGGC GCCCTTGGCG CGGGCGTCTT CCTCGTCTCC 1560
 TGCTCCTCT GTGCTGCTGG CTGCTGCTGC CGCCGCCACA GGAAGAAGCC CAGGGAACAAG 1620
 GAGTCCGTGG GTCTGGGCAG TGCCTCGGGC ACCACCACCA CCCACCTGGT GAGGAGCGGC 1680
 10 TCCTTGCTCA CTCAGTCCAG AGAGGGCTTG AAATCCAGGC TCCAGAGCCC AGGGCAGCGA 1740
 GGCAGTTTCA GCGCAGGGA TGGTTTAACC CCCACAGAGG CAGGGCGTTG AGGACCTTCC 1800
 TGGCAGGGA AGTGGGTGA CAGAGGTAG AAGGAGGCCA TGCAACAGGG GCTGCCCAT 1860
 GGGCCCGAGG GAGCCACAGC GGGTTCTTGA GGAAGGCAGG GGGTACCCCA GATGCCACGT 1920
 TTTGGGTGGG TTTGGCGGGT CTCACAGAGC GAAGCCGAGC ATTTGTGCCT GTTGGGTGGC 1980
 15 CTGGCCCTGA GCGGGGGGGT CTTGACCCAT GTCATGCAAG GCGTGCCTCG GAGCCAGGG 2040
 CTCGTATGAT GGCATGATGT AGCACCACT GCCCTTGTCT CCAACTCACT CCAGGTGCAA 2100
 CCTGATGTGT ATGGCCTGGA GTCCAGCCCG GGGGATGCTC AGCAATGGGG GTGCTCTCAG 2160
 CTCCTCCTGT AGTTCTGACT TGGAAAGCCAG GAGGTGAAGG GCCCGCTGCG CAGGAGCCAG 2220
 CGTTCTGCG AGTTTCCGGA AAGGGTGAGC GGGGAAGGGC AGACCCCATG CCTGGGTGG 2280
 20 TGGGGAGCTG ACAGGGCAGG GGCCTTGGC TGAGCCCACT CCGTGGCTC CCAGATCAGG 2340
 GTGGGCTTGA GGCAGGAGC GACCTGAGG CCTGGGGGCA CCGTGGACCC CTATGCCCG 2400
 GTGAGGTCT CCACCCAGGC CGGACACAGA CATGAGACAA AAGTGCACCG AGGCACGCTC 2460
 TGCCCTGCTG TTGACAGAGC CTGCTGCTTC CACGTGAGTC AGGGATGGTC GGTGGGTGG 2520
 25 GCTTGAGCG CTGATGGGC CTGGCTGGG TGGGCTGGG CAGCTGGGTG GGCCTGGGCA 2580
 GCTGGGTGG CCTGAGCTAG GGCAGCAGGG CCTGGCTCAC GCCGTGCCT CAGATCCCGC 2640
 AGGCGGAGCT GCCAGGGGGC ACCCTGCAGG TGCAGCTTTT CAACTTCAAG CGCTTCTCG 2700
 GGCATGAGCC CCTGGGTGAG CTCCTGCTGC CACTGGGCAC CGTGGATCTG CAGCATGTT 2760
 TGGAGCACTG GTACCTGCTG GGCCTCGCG CTGCCACTCA GGTGAGGTGC TGGTCAACCAG 2820
 30 GCCACAGCCC AAGCCAGAGC TGGCAGGGAC CCTGCCCTAT GGGCCATCGG AAAGACAGGC 2880
 CTGATGGGCA GCATTTTCCG GGGTCTGAGC CCCAATCGG CCAGAATCAC CCTCCGGGC 2940
 TGAAGGCTAG CTTGCTGCCC ACAGCCCGAG CAGGTGCGGG AGCTGTGCTT CTCTCTCGG 3000
 TAGGTGCCCA GCTCAGGCGG GCTGACCTG GTGTGCTGAG AGGCTCGAGG CCTGCTCCA 3060
 35 GGAATTGAG AGCCCTACGT GAAGGTCCAG CTCATGCTGA ACCAGAGGAA GTGGAAGAAG 3120
 AGAAGACAG CCACCAAAAG GGGCAGGCG GCCCCTACT TCAATGAGGC CTTACCTTTC 3180
 CTGGTGCCTC TCAGCCAGGT CCAGAAATGT GACCTGGTGC TGGCTGTCTG GGCAGCGAGC 3240
 CTGCCCTCC GAACCTGAGC GTAGGCAAG GTGCACTGTG GTGCCCGGGC CTGGGGGAG 3300
 CCCTCGAGC ACTGGGCAGA CATGCTGGCC CACGCCCGGC GGCCTATTGC CCAGCGGCAC 3360
 40 CCCTCGGCG CAGCCAGGGA GGTGGACCG ATGCTGGGCC TGACGCCCG CCTTGGCTG 3420
 CGCTGCCCT TGCCCACTC CTGAATGCAC CACATGCCTC TGTCTCCCG CTGAGCCAG 3480
 GCACTTGCCC AGGCCGCCCT GCAGGACCAC TGCAATAAAC GCCTTCTCCT GCC

Seq ID NO: 197 Protein sequence

Protein Accession #: XP_028196.1

45 1 11 21 31 41 51
 MGHPFVSPSA PAPAGTTAIP GLIPDLVAGT PCELWDSQEG CGDNPAKWGL QLSTDALSLA 60
 STGPFRWALI AGALAAGVLL VSCLLCAACC CRRHRKKPR DKESVGLGSA RGTTHLVR 120
 50 SGLSLTQSRB GLKSLQSPG QRGEPSPRDG LTPTEAGR

Seq ID NO: 198 DNA sequence

Nucleic Acid Accession #: NM_000612.2

Coding sequence: 553..1095

55 1 11 21 31 41 51
 TTCTCCGCA ACCTTCCCTT GCTCCCTCC GGTCCCCC AGCTCCTAGC CTCGACTCC 60
 CTCCCCCTT CACGCCCGCC CTCTGCTCTT GCGGAACCA AAGTGGATTA ATTACACGT 120
 60 TTCTGTTTCT CTCGTGCTG TTCTCTCCG CTGTGCGCTT GCCCGCTCT CGCTGTCTC 180
 TCTCCCTCT GCTCTCTCTT GGGCCCCCCC CTTTCAGTT CACTCTGTCT CTCCCACTAT 240
 CTCTGCCCC CTCTATCTCT GATACAACAG CTGACCTCAT TTCCGATAC CTTTCCCCC 300
 CCGAAAAGTA CAACATCTGG CCGCCCCAG CCGAAGACA GCCGCTCTC CTGGACAAT 360
 CAGACGAAT CTCCCCCCC CCCCCAAAA AAAAGCCATC CCCCCTCTT GCCCGTGC 420
 65 ACATTGCGCC CCGCGACTC GGCAGAGCG GCGTGGCAG AGGAGTGTCC GGCAGGAGG 480
 CCAAGCCCG CTGTTGCGTT TGCGACAGC AGCAGGAGG TGGGCGGAG CGTCCCGGC 540
 TTCCAGACAC CAATGGGAAT CCCAATGGG AAGTCGATGC TGGTCTTCT CACCTTCTT 600
 GCCTTGCCT GGTGCTGAT TGCTGCTTAC GCGCCAGTG AGACCTGTG CGCGGGGAG 660
 CTGGTGACA CCTCCAGTT GCTCTGTGG GACCGGGCT TCTACTTCA CAGCCCGCA 720
 70 AGCGGTGTA GCGCTGCGAG CGTGGCATC GTTGAGGAGT GCTGTTCGG CAGCTGTGAC 780
 CTGGCCCTC TGGAGAGTA CTGTGCTACC CCGCCAGT CCGAGAGGA CGTGTGAGC 840
 CCTCCGACG TGCTTCCGGA CAACCTCCCC AGATACCCG TGGCAAGTT CTTCAATAT 900
 GACACCTGA AGCAGTCCAC CCAGCGCTG CGCAGGGGCC TGCTGCTCT CTGCTGTGC 960
 GCGCGGGTC ACCTGCTCGC CAAGGAGCTC GAGGCTTCA GGGAGGCCAA ACCTCACTG 1020
 75 CCGCTGATT CTCTACCCAC CCAAGACCCC GCGCCCGGG CGGCCCCCC AGAGATGGCC 1080
 AGCAATCGA AGTGAACAA ACTGCCGCA GTCTGACGC CGGCGCCACC ATCTGCGAGC 1140
 CTCCTCTGA CACGGAAGT TTCCATCAG TTCCATCCG AAAATCTCT GGTTCACGT 1200
 CCGCTGGGG CTTCTCTGA CCGATCCCC GTGCCCGCC TCCCGAAAC AGGCTACTCT 1260
 80 CCTCGCCCC CTCCATCGG CTGAGGAAG ACAGCAGCAT CTTCAACAT GTACAAAATC 1320
 GATTGGCTTT AAACACCTT CACATACCT CCCCCC

Seq ID NO: 199 Protein sequence

Protein Accession #: NP_000603.1

1 11 21 31 41 51

MGIPMGKSM L VLLTFLAFAS CCIAAYRPSE TLGGELVDT LQFVCGDRGF YFSRPASRVS 60
 RRSRGIVEEC CFRSCDLALL ETYCATPAKS ERDVSTPPTV LPDNFPRYPV GKFFQYDTNK 120
 QSTQRLRRGL PALLRRRRGH VLAKELEAFR EAKRHRPLIA LPTQDPAHGG APPEMASNRK

Seq ID NO: 200 DNA sequence
 Nucleic Acid Accession #: AK057131.1
 Coding sequence: 61..1146

1 11 21 31 41 51
 AGTCCTGGGCG TTTAGGTCAG AACTACCCCG GTAGCCTGAC AGCAGGAGCT CGAGAGAAGC 60
 ATGGCTCAGC GGTGCGTTTG CGTCTGGCC CTGGTGGCTA TGCTGCTCCT AGTTTTCCCT 120
 ACCGTCTCCA GATCGATGGG CCGAGGAGC GGGGAGCATC AAAGGGCGTC GCGAATCCCT 180
 TCTCAGTTCA GCAAGAGGA ACGCGTCGCG ATGAAAGAGG CGCTGAAAGG TGCCATCCAG 240
 ATTCCAACAG TGACTTTTAG CTCTGAGAAG TCCAATACTA CAGCCCTGGC TGAGTTCCGA 300
 AAATACATTC ATAAAGTCTT TCCTACAGTG GTACGACCA GCTTTATCCA GCATGAAGTC 360
 GTGGAAGAGT ATAGCCACCT GTTCACTATC CAAGGCTCGG ACCCCAGCTT GCAGCCCTAC 420
 CTGCTGATGG CTACGTTTGA TGTGGTGCCT GCGCCCTGAG AAGGCTGGGA GGTGCCCCCA 480
 TTCTCTGGGT TGGAGCGTGA TGGCGTCATC TATGGTTGGG GCACACTGGA CGACAAGAAC 540
 TCTGTGATGG CATTTACTGA GGCCTTGGAG CTCTGCTGA TCAGGAAGTA CATCCCCGA 600
 AGATCTTCTT TCATTCTCTT GGGCCATGAT GAGGAGTCAT CAGGACAGG GGTCTCAGAG 660
 ATCTCAGCCC TGCTACAGTC AAGGGGCGTC CAGTAGCCTT TCATTGTGGA CGAGGGGGGC 720
 TTCACTTGG ATGATTTTCA TCCTAATTC AAGAAGCCCA TCGCTTGAT TGCACTCTCA 780
 GAGAAGGGTT CCATGAACCT CATGCTGCAA GTAAACATGA CTTCAGGCCA CTCTTCAGCT 840
 CTTCCAAAG AGACAAGCAT TGGCATCCTT GCAGCTGCTG TCAGCCGATT GGAGCAGACA 900
 CCAATGCCCTA TCATATTGG AAGCGGGACA GTGGTGACTG TATTGCAGCA ACTGCCAAT 960
 GAGGTTTATG GAGAGAAATC CCTTAACCAA TGCAATAATC AGGACCACCA CGGCACTCAC 1020
 CATATTCAA GCAGGGGTC AAGTTCAATGT CATCCCCCA GTGGCCGAGG CCACAGTCAA 1080
 CTTCCGGAAT CACCCCTGAC AGACAGTCCA AGAGGTCCTA GAACCTCAGA AGAATATTGT 1140
 GGCTGATAAC AGAGTCCAGT TCCATGTGTT GAGTGCTTTT GACCCCTCC CCGTCAGCCC 1200
 TTCTGATGAC AAGGCTTGG GCTACCACT GCTCCGCGAG ACCGTACAGT CCGTCTTCCC 1260
 GGAAGTCAAT ATTACTGCC CAGTTACTTC TATTGGCAAC ACAGACAGCC GATTCTTTAC 1320
 AAACCTCACC ACTGCATCT ACAGGTTCTA CCCCCTAC ATACAGCTG AAGACTTCAA 1380
 AGCATCCAT GAGTCAACG AGAAAATCTC AGTCCAGCC TATGAGACC AAGTGAAAT 1440
 CATCTCACC TTGATTGAGA ATGCTGACAC AGACAGGAG CCAGTTTCTC ACCTGCACAA 1500
 ACTGTGAGGT CAAGGGGCTT GCTGGGTTAG GCATGCCGA CCGCGGACA GGACTAACCC 1560
 AAGGGGGAAA GCTAGTGTG ATGAACTTT TGATCAAAC CACATTGTAA AACATTGCC 1620
 ATCTGTCTGT CTCACTTTA AACTCTCCA AGAACAAAGG CCGGTAAGG TAAAGTCAGC 1680
 AGAAATCTGG CTCTCCCTT CCTCCGACA TCTGCATCCC TTGATCCACT GGCATTGTCT 1740
 GCGCTTGTG CCGTTATCTG TCTTATGCTG GTTATTTCAC TGCTTCACT TCCAGGCTTG 1800
 ACTTAACAAA TGATGATTG AGAAATCTCA ACCAGTTGTT ACCTGATAGG AGTCTTTAAT 1860
 TTAGGGCACT CTGCTGGGA TGCTTTCTCC AGAGCTTATA TATTTCTTCT TACTAGAAT 1920
 TTCTTCCCCC TTTTATTTCC CTCTCTTCTT GGACTCATGA GCTGTCTCTT CATCTCTCCT 1980
 CTCTCTCCG CATCTCTCCC CTACTCTTC AATTATTCT ACTTCTGGAC CTGGAATTAC 2040
 CCAAACTGTG ATACTACCAT AATTGTACC ATATACAGT AAATAAAGT ATCTGTGCAT 2100
 C

Seq ID NO: 201 Protein sequence
 Protein Accession #: BAB71368.1

1 11 21 31 41 51
 MAQRQCVLIA LVAMLLLVFP TVSRSMGPRS GEHQASRIP SQFSKEERVA MKEALKGAIQ 60
 IPTVTFSSEK SNTTALAEFG KYIHKVFPTV VSTSFQHEV VEEYSHLFTI QGSDPSLQPY 120
 LLMAHFDVVP APEGNEVFP FSGLERDGI YGWTGLDDKN SVMALLQALE LLLIRKYIPR 180
 RSFFISLGHG EBSGSGAQR ISALLQSRGV QLAPIVDEGG FILDDFIFNP KKPILIAVVS 240
 EKGSMMLMLQ VNMTSGHSSA PPKETSIGIL AAASVRLQET PMPIIFSGST VVTVLQQLAN 300
 EVYGEKSLNQ CNNQDHHGTH HIQSRGQVQC HPPSGPGHSQ LPDSPWTDSP RGPRTHEHC 360
 G

Seq ID NO: 202 DNA sequence
 Nucleic Acid Accession #: NM_004217.1
 Coding sequence: 58..1092

1 11 21 31 41 51
 GGCAGGAGA GTAGCAGTGC CTTGGACCCC AGCTCTCCTC CCCCTTCTC TCTAAGGATG 60
 GCCCAGAAGG AGAACTCCTA CCCCTGGCCC TACGGCCGAC AGACGGCTCC ATCTGGCCTG 120
 AGCAGCCTGC CCCAGGAGT CCTCCGAAA GAGCCTGTCA CCCCATCTGC ACTTGTCTCT 180
 ATGAGCCGCT CCAATGTCCA GCGCACAGCT GCCCTGGCC AGAAGGTGAT GGAGAATAGC 240
 AGTGGGACAC CCGACATCTT AACGCGCAC TTCACAAATG ATGACTTTGA GATTGGCGCT 300
 CCTCTGGGCA AAGGCAAGTT TGGAAAGGTG TACTTGGCTC GGGAGAAGAA AAGCCATTTC 360
 ATCGTGGCGC TCAAGGTCTT CTTCAGTCC CAGATAGAGA AGGAGGCGT GGAGCATCAG 420
 CTGCGCAGAG AGATGCAAT CCAGGCCAC CTGCAACATC CCAACATCCT GCGTCTCTAC 480
 AACTATTTTT ATGACGGGAG GAGGATCTAC TTGATTCTAG AGTATGCCCC CCGGGGGGAG 540
 CTCTACAAGG AGCTGCAGAA GAGCTGCACA TTGACGAGC AGCGAACAGC CACGATCATG 600
 GAGGAGTTGG CAGATGCTCT AATGTACTGC CATGGGAAGA AGTGATTCA CAGAGACATA 660
 AAGCCAGAAA ATCTGCTCTT AGGGCTCAAG GGAGAGCTGA AGATTGCTGA CTTCGGCTGG 720
 TCTGTGCATG CGCCCTCCCT GAGGAGGAAG ACAATGTGTG GCACCCTGGA CTACCTGCCC 780
 CCAGAGATGA TTAGGGGGG CATGCACAAT GAGAAGGTGG ATCTGTGTG CATTGGAGTG 840
 CTTTGTCTATG AGCTGCTGGT GGGGAACCCA CCTTTGAGA GTGCATCACA CAACGAGACC 900
 TATGCGCGCA TCGTCAAGGT GGACCTAAG TTCCCGGCTT CTGTGCCAC GGGAGCCGAG 960
 GACCTCATCT CCAAACTGCT CAGGCATAAC CCTCGGAAC GGCTGCCCTT GGCCAGGTC 1020

TCAGCCCACC CTTGGGTCGG GGCCAACTCT CGGAGGGTGC TGCCTCCCTC TGCCTTCAA 1080
 TCTGTGCGCT GATGGTCCCT GTCACTTCACT CGGGTGGCTG TGTGTGTATG TCTGTGTATG 1140
 TATAGGGGAA AGAAGGGATC CTAACCTGTT CCCTTATCTG TTTTCTACCT CCTCCTTTGT 1200
 TTAATAAAGG CTGAAGCTTT TTGT

Seq ID NO: 203 Protein sequence
 Protein Accession #: NP_004208

1 11 21 31 41 51
 MAQKENSYPF PYGRQTAPSG LSTLPQVRVLR KEPVTPSALV LMSRSNVQPT AAPGQKVMEN 60
 SSGTDPDILTR HFTIDDPEIG RPLGKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH 120
 QLRREIEIQA HLHHPNWLRL YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI 180
 MEELADALMY CHGKVKVHRD IKPENLLGLL KGELKIDAFG WSVHAPSLRR KTMCGTLDYL 240
 PPEMIEGRMH NEKVLDWICG VLCYELLVGN PPFSASAHNE TYRRIKVDL KFPASVPTGA 300
 QDLISKLLRH NPSERLPLAQ VSAHPWVRAN SRRVLPSPAL QSWA

Seq ID NO: 204 DNA sequence
 Nucleic Acid Accession #: AK055663
 Coding sequence: 38..1423

1 11 21 31 41 51
 AGAAGCGGCT CCGGCGGGAG CTGTGCAGCT CCTTATCATG GGGACAATTC ATCTCTTTGG 60
 AAAACCAACA AGATCCTTTT TTGGCAAGTT GTTACGGGAA TTAGACTGTG TAGCAGCTGA 120
 CGGAAGGTCC TGGAAAGATC TGCTCTTTGG TGAATAAAC TTGATATGTA CTGGCTTCCT 180
 GCTTATGTGG TGCACTTCTA CTAATAGTAT AGCTTTAACT GCCTATACTT ACCTGACCAT 240
 TTTTGTATCT TTTAGTTTAA TGACATGTTT AATAAGTTAC TGGGTAAACAT TGAGGAAACC 300
 TAGCCCTGTC TATTCATTGG GGTGTGAAAG ATTAGAAGTC CTGGCTGTAT TTGCTTCCAC 360
 AGTCTTGCCA CAGTTGGGAG CTCTCTTTAT ATTAAAGAA AGTGCAGAAC GCCTTTTGGG 420
 ACAGCCCGAG ATACACACGG GAAGATTATT AGTTGGTACT TTTGTGGCTC TTTGTTTCAA 480
 CCTGTTCAGC ATGCTTTCTA TTCGGAATAA ACCTTTGTCT TATGTCTCAG AAGCTGCTAG 540
 TACGAGCTGG CTTCAGAGAC ATGTTGCAGA TCCTAGTCGA AGCTTGTGTG GAATTTATTC 600
 GGGACTTAGC AGTATCTTCC TTCCCGAAT GAATCCATT GTTTTGAATT ATCTGTCTGG 660
 AGCATTGTCT CTTTGTATTA CATATATGCT CATTGAAAT AATAATTATT TTGCCGTAGA 720
 CACTGCCTCT GCTATAGCTA TTGCCCTGAT GACATTGGGC ACTATGTATC CCATGAGTGT 780
 GTACAGTGGG AAAGTCTTAC TCCAGACAA ACCACCCCAT GTTATTGGTC AGTTGGACAA 840
 ACTCATCAGA GAGGTATCTA CCTTAGATGG AGTTTATGAA GTCGGAATG AACATTTTGG 900
 GACCCTAGGT TTTGGGCTCAT TGGCTGGATC AGTGCATGTA AGAATTGCGC GAGATGCCAA 960
 TGAACAAATG GTTCTTGCTC ATGTGACCAA CAGGCTGTAC ACTCTAGTGT CTACTCTAAC 1020
 TGTTCAAATT TTCAAGGATG ACTGGATTAG GCCTGCCTTA TTGCTGGGCG CTGTTGCAGC 1080
 CAATGTCCTA AACTTTTCTG ATCATCAAGT AATCCCAATG CCTCTTTTAA AGGGTACTGA 1140
 TGATTTGAAC CCAGTTTACAT CACTCCAGC TAAACCTAGT AGTCCACCTC CAGAAATTTT 1200
 ATTTAAGCAT CCTGGGAAAT ATGTGAACCC AGTTATTCTT CTAAACACAC AAACAAGGCC 1260
 TTATGTTTGT GGCTCAATC ATGGACACAC ACCTTACAGC AGCATGCTTA ATCAAGGACT 1320
 TGGAGTCCA GGAATTGGAG CAACTCAAGG ATTGAGGAGT GGTTTTACAA ATATACCAAG 1380
 TAGATATGGA ACTAATAATA GAATTGGACA ACCAAGACCA TGATAGACTC TAACTTATTT 1440
 TTATAAGGAA TATTGACTCC TTGGCTTCCA ATTTATTTAG TAATCCAATC TTGCATTGAC 1500
 TGTTTAATCA TTTACTCTAA ATGTTAGATA ATAGTAGTCT TGTTCACATT TCATGAAACC 1560
 TATGAAACTA TATTTTGTGA AAATGTATTT GTGACAGTGA AATCCTGCTA AATGTTAAAG 1620
 GCCTTAAATA GGCTTCTCTT AGAAAATGTG TTTCTTTAAA TTTGGAATTT GGTATCTTTG 1680
 GTTTTGTAGT TGAATGCACT GTGATGTGAC CTTACCTTTA TAAGAGCCAC TTGATGGAGT 1740
 AGATCTGTCA CATTACTAAG ATACGATATT TCTTTTTTTT TCCGAGACCG AGTCTTGCTC 1800
 TGCCACTGTG CCGGGCAACT ACATTATTAT TAACTTAAAG CTGTACTTTA TTAAGGCTTC 1860
 CTTAGTTTTT GTTTTGTGTT GTTTTGTGAG ATGGAGTCTC ACTCTGTCGC CCAGGCTGGA 1920
 ATGCAGTGGC ATGATCTCAG CTCACCTGCA CCTCTGCCTC CTGAGTTCAA ATGATTCTCC 1980
 TGCTCAGCC TCCGAGTAG CTGGGATTAC AGGCACCTGC CACCACGCCC AGCTAATTTT 2040
 TGTATTTTAA GTAAAGACCG GGGATTTCAC CATGTTGGCC AGGCTGGTCT TGAATCCTG 2100
 ACCTCATGAT CCACCCACCT TAGCCTCCCA AAGTGTGGG ATTAGGTGTG AGCCACCGCA 2160
 CCTGGCCGAT ATTTCTTTTA ATGAAATTTA TAAATATGCT TCTTGAATAA TACACATTTT 2220
 GGGAAAGGGA AAAATGTCTG TTCAAAAAGT AAAGGTCTCT TTTATAGCTT TTCCAAACTT 2280
 AATGTCTAAA TTTTCTTTG AGGTCTCTCT GAATATATGC TTACAAACTA AAAGCAAAAA 2340
 TTTTATGACG AAATTTTGGG ATACATTCTA TCTAGCACAA TTTGAATTTT TAATTATCAA 2400
 GATTTTGTGT AAAGTTTCTC TCCTTAAAAA ATTTTAGTAC ATTTGTAAAT

Seq ID NO: 205 Protein sequence
 Protein Accession #: BAB70980.1

1 11 21 31 41 51
 MGTIHLFRKP QRSFFGKLLR EFRVLAADRR SWKILLFGVI NLICTGFLLM WCSSTINSIAL 60
 TAYTYLTIFD LFSIMTCLIS YWVTLRKPSF VYSFGFERLE VLAVPASTVL AQLGALFILK 120
 ESAERFLEQP EIHTGRLLVG TFVALCFNLF TMSIRNKPF AYVSEAASTS WLQEHVADLS 180
 RSLCGIIPGL SSIFLPRMNP FVLIDLGAFA ALCITYMLIE INNYFAVDTA SAIAIALMTF 240
 GTMYPMVSYS GKVLQQTTPP HVIGQLDKLI REVSTLDGVL EVRNEHFWTL GFGSLAGSVH 300
 VRIKRDANEO MVLHVNTNRL YTLVSTLTQV IFKDDWIRPA LLSGPVAANV LNFSDDHVIP 360
 MPLKKGTDOL NPVTSTPAKP SSPPEFSFN TPGKNVNPVI LLNTQTRPYG PGLNHGHTPY 420
 SSMLNQGLGV PGIGATQGLR TGFTNIPSRY GTNNRIGQPR P

Seq ID NO: 206 DNA sequence
 Nucleic Acid Accession #: NM_016361.1
 Coding sequence: 397..1662

1 11 21 31 41 51

Seq ID NO: 207 Protein sequence
Protein Accession #: NP_057445.1

Seq ID NO: 208 DNA sequence
Nucleic Acid Accession #: CAT cluster

Seq ID NO: 209 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..564

Seq ID NO: 210 Protein sequence
Protein Accession #: FGENESH predicted

80 Protein Accession #: FGENSEH predicted

1	11	21	31	41	51	
MEPWANLQGL	KSRPTCPAAS	SDPFSALPAQ	DTGEGAVRNL	QSHTVGLTAL	EANDPFANKD	60
DEPYVDKNT	DLGLIGGL	LATAGTAAVL	SGKCKKSSO	KHSPVPEKA	IPLITGRFL	120

TLAKSNKPLS PSTFVLVFGI SYTSVFRVPL SASLYPAIPG DAAALTSGHP SMQNISMQNT 180
GTRGCT

5 Seq ID NO: 211 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..318

10	1	11	21	31	41	51	
	ATGCCCCGCC	ACCCCGTCTG	TGAAGTGAGG	AGCACCTCTG	CCCGGCTGCC	CCGTCTGGGA	60
	AGTGAGGAGC	GCCTCTGCCC	GGCTGCCACC	CCGTCTGTGA	GTGCTGCTGT	CGCTGGGCCC	120
	AGGCCGCCCG	TGCCCTGCCA	GGCCCTCCGG	CCCCCACCCT	TCCACCCAG	GGCCTGCTCC	180
	TCACCCGAGG	GTTCATCTC	CCTAGTTTCC	ACCAGAGACT	GGGTCTTCAT	TCTCACCCCTG	240
15	CTACACAGCC	CCTACCAGAA	CGTTCTGAAA	TGCAAACTA	ACAACCTGCT	CACCCAGCA	300
	GGAAACTCCC	CAGGTCCCG	GGCCCTGTC	GGGTTGCAG	GCCTCCTCT	TCGCGCCCAT	360
	CCCTCGCCC	TGACCGCCT	GAGCTCGCCC	CCAGTGTCTG	CCCTCAGCT	CCAGTTATCC	420
	CTCCAGCCT	CCAAGGTCCC	CGTTACCGAA	GACCGCCACC	ATCAGCAGAT	AGCGCAGCAC	480
	ATATGGGACA	CTGGTGAAG	AGCAGTGAGG	AACCTGCAGA	GTACACAGT	TGGCTGACT	540
20	GCCTTGAAG	CCAATGACCC	ATTGCCCAAT	AAAGACGATC	CCTTCTACTA	TGACTGGAAA	600
	AACCTGCAGC	TGAGCGGACT	GATCTGCGGA	GGCTCCTGG	CCATTGCTGG	GATCGCGGCA	660
	GTTCTGAGTG	GCAATGCAA	ATGCAAGAGC	AGCCAGAAGC	AGCAGAGTCC	TGTACTGAG	720
	AAGGCCATCC	CATCTATCAC	TCCAGGCAGA	TTTCTCAGCT	TGCCAAATC	AAATAAACCT	780
	TTATCTCCAA	GCACCTTTGT	CTTGGTGT	GGCATCAGCT	ACACATCAGT	CTCGAGTG	840
25	CCTCTTTCTG	CGTCCCTGTA	CCCTGCCATT	CCTGGTGATG	CTGTCGCCCT	CACATCAGGC	900
	CATCCAAGCA	TGCAGAACAT	AAGCATGCAG	AACACTGGAA	CGAAGGCGTG	TACCTAA	

Seq ID NO: 212 Protein sequence
Protein Accession #: FGENESH predicted

30	1	11	21	31	41	51	
	MPGHVPCVEVR	STSLRLPRLG	SEERLCPAAT	PSVSACCAGP	RPPVPCQALR	PPTFPHFRACS	60
	SPQGSISLVS	TRDWVFILTL	LHSPYQNVLK	CKFNNCLTPA	GNSPGSRAPC	GVAGLTLRAH	120
35	PSALTALSSP	PVALHLVQLS	LPASKVPVTE	DRHHHDIAQH	IWDTEGAVR	NLQSHVGLT	180
	ALEANDPFAN	KDDPFYVDWK	NLQLGGLICG	GLLAITAGIAA	VLSGKCKCKS	SQKQHSFVPE	240
	KAIPLITPGR	FLTLAKSNKP	LSPSTFVLVF	GISYTSVFRV	PLSASLYPAI	PGDAAALTS	300
	HPSMQNISMQ	NTGTRGCT					

40 Seq ID NO: 213 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..1758

45	1	11	21	31	41	51	
	ATGATGGGGT	CTCATGTTGC	CCAGGCTGGT	CTTGAACCTC	TGGGCTCGAG	TGACCCCTCT	60
	GCCTTGGCCT	CCGAAAGTGC	TGGGATTACA	GGACTGTTAT	TACAGGAATC	CATAACACTG	120
	GAGGATGTGG	CTGTGGACTT	CACCTGGGAG	GAGTGGCAAC	TCTTGGGCGC	TGCTCAGAA	180
	GACCTGTACC	GGGATGTGAT	GTGGAGAAAC	TACAGCAACC	TGGTGGCAGT	GGGATACAA	240
50	GCCAGCAAA	CGGATGCACT	CTTCAAGTTG	GAACAAGGAG	AACAACCTGT	GACAATTGAA	300
	GATGGAATCC	ACAGTGGAGC	CTGTTCAAGT	TCTCCAAAGG	TCCCGTTCTC	CATTTTCTCA	360
	TCTGTGCCCT	TCACCTCTCA	AAATGCGCTT	CATTCTAACA	TATGGAAAGT	TGATCATGTG	420
	CTGGAGCGCT	TGCAGAGTGA	AAGCCTGTGT	AACAGAAAGG	AACCATGTCA	TGAACATGAT	480
	GCATTTGAAA	ATATTGTTCA	TTGCAGCAAA	AGTCAGTTTC	TGTTAGGGCA	AAATCATGAT	540
55	ATATTGACT	TACGTGAAA	AAGTTTGAAA	TCCAATTAA	CTTTAGTTAA	CCAGAGCAAA	600
	GGCTATGAAA	TAAAGAACTC	TGTTGAGTTT	ACTGGAAATG	GGGACTCCTT	TCTTCATGCT	660
	AACCATGAAC	GACTTCATAC	TGCAATTAAA	TTCCCTGCAA	GTCAAAAAC	CATCAGCACT	720
	AAGTCCCAAT	TCATCAGTCC	CAAGCATCAG	AAAACACGAA	AATTAGAGAA	GCATCATGTG	780
	TGCAGTGAAT	GTGGGAAAGC	CTTCATCAAG	AAGTCTTGGC	TAACTGATCA	CAGGTAATG	840
60	CATACAGGAG	AGAAACCCCA	CAGATGTAGT	CTATGTGAGA	AAGCCTCTCT	CAGAAAGTTC	900
	ATGCTTACTG	AACATCAGCG	AACATCATCA	GGAGAAAAAC	CTTATGAATG	CCCTGAATGT	960
	GGCAAGCCCT	TTCTCAAGAA	ATCAGCGCTC	AACATACATC	AGAAAACACA	TACCGGAGAG	1020
	AAACCTTATA	TATGAGTGA	ATGTGAAAA	GGCTTCATCC	AGAAAGGAAA	TCTCATTGTA	1080
	CACCAAGCAA	TTCATACAGG	TGAGAAACCT	TATATATGCA	ATGAATGTGG	AAAAGGCTTC	1140
65	ATTGAGAGA	CGTGTCTCAT	AGCAGATCAG	AGATTTCACA	CAGGAAAGAC	GCCTTTGTG	1200
	TGCAGTGAAT	GTGGAAATC	CTGTTCTCAG	AAATCAGGTC	TCATTAAACA	TCAAAGAAAT	1260
	CACACAGGAG	AGAAACCCCT	TGAATGTAGT	GAATGTGGGA	AAGCCTTTAG	CACAAAGCAA	1320
	AAGCTCATTT	TCCATCAAG	GACTCATACA	GGAGAGAGAC	CCTATGGCTG	TAAAGAGTGT	1380
	GGGAAAGCGT	TTGGTATAT	GTGCTGTCTG	GTAAAGCATA	AGAGAATACA	CACAAGGGAG	1440
70	AAACAAGAGG	CAGCAAGGT	GGAAATCCT	CCTGCAGAGA	GGCAGAGCTC	ATTACACACC	1500
	AGTGATGTCA	TGCAGGAGAA	AACTCTGCT	AACGGGGCGA	CTACACAAGT	GCCTTCTGTG	1560
	GCCCTCAGA	CATCATTAAT	CATCAGCGGC	CTCCTCGCAA	ACAGGAACGT	AGTCTTGTG	1620
	GGACAGCCAG	TGGTCAGATG	TGCAGCCTCA	GGAGATAACA	GAGGATTTCG	ACAGGACAGA	1680
	AACCTTGTA	ATGCAGTGAA	TGTGGTTGTG	CCTTCCGTGA	TCAATTATGT	CITATTTTAT	1740
75	GTTACAGAAA	ACCCATAG					

Seq ID NO: 214 Protein sequence
Protein Accession #: FGENESH predicted

80	1	11	21	31	41	51	
	MMGSHVAQAG	LELLGSSDPP	ALASESAGIT	GLLLQESITL	EDVAVDFTWE	EWQLLGAAQK	60
	DLYRDVNLN	YSNLVAVGYQ	ASKPDALFKL	EQGEQLMTIE	DGIHSGACSG	SPKVPFSIFS	120
	SVPPTLQNL	HSNLWKVDHV	LERLQSESLV	NRKPCHEHD	AFENIVHCSK	SQFLGQNH	180
	IFDLRGLSKL	SNLTLVNQSK	GYEIKNSVEP	TGNGDSFLHA	NHERLHTAIK	FPASQKLIST	240

KSPQFISPKHQ KTRKLEKHHV CSECGKAFIK KSWLTDHQVM HTGEKPHRCS LCEKAFSRKF 300
 MLTEHQRTHT GEKPYECPEC GKAFLLKSRLL NIHQKTHTGE KPYICSECGK GFIOKGNLIV 360
 HQRIHTGEKP YICNECCGKF IQKTCLIAHQ RFHTGKTPFV CSECGKSCSQ KSGLIKHQRI 420
 HTGEKPFECB ECGKAFSTKQ KLIVHQRTHT GERPYGNEC GKAFAYMSCL VKHKRIHTRE 480
 KQEAARKVENP PAERHSSLHT SDVMQERNNSA NGATTQVPSV APQTSLSNISG LLANRNVVLV 540
 GQPVVRCAAS GDNRGFAQDR NLVNAVNVVV PSVINYLIFY VTENP

Seq ID NO: 215 DNA sequence

Nucleic Acid Accession #: NM_032190.1

Coding sequence: 502..1332

1 11 21 31 41 51
 | | | | |
 GATTCCGTGT TCTTGGCCAT GTTAGCCATA ATATCCTGTG CAGTATGTTT TTCCTGTGCA 60
 GAGGCAAAAA CATATTGGGC ATATGTTCCC AAGCCCCCAG CAGTATGACC CATACTTTGG 120
 AGTGACACTC CTCCTAAGAT TTATCATGAT TAAGGAGCAT GGGCTCCAGG ACCCTTAAC 180
 CCACCTGACA TAGAACAGTT AGACTCTCAG AATAATGTCA TTAATTATAC CGCTCCATTG 240
 GAAGGACTTC CTTTGTGTGT CACCACAAAG ACATCACTCA GCCATAGCTG TCTTACAGTT 300
 CAAGCTCACA CATGGTTGAG TCACTATGGG AAAATCATGT ACTTATTAAG TCTTGGTTAT 360
 ATTAATGTAA CCGGTGTGCT AACCAACCAT TCCTGGCCCA ATCGCTTCA TGTGTCTGAC 420
 TATACAGAAT GGATTCCCTT CAATAGTTCC TACCCCTCTC CATAGACCCA GTGTCTTGGC 480
 CCACTGGCTA GAAAAAATC TATGTTAACT GGAGACATTG TGGATTGGGG ACCTAAAGGC 540
 CAATTAGATG GAAAAGAGA AAATCAGAAA TCGTGGCACA AACTTTGCTG GCATTGGTGG 600
 CAAGCTTTTA ATGCTTCTTC TTTATATAAC ACTGGGATCC AATCCAGTTC GGCCGCCAG 660
 ATTGCTTGGC ATGGAGCAGG CTTTAGCCCG CCTCTTCTTC AGTGGCATTG TCTAGGGAGG 720
 AAAGGACCAA TTCAAAAGAT GATATGGAAG GCAGCATTCC CATTATGAA TGGCAACATC 780
 TGGGTTGCCA TAATACTATC CAATAATAGC AATAGTAAGC AACACAGTCT TAATGTTACA 840
 TTTGTAAGAA ATATCACCAC TCAATTTACA GTTGTGTGTT TTAATCCTTA TGTGTTTTTG 900
 GCAGCTAAGA AGGACCAAGT CCAGGTAAAC AATACCCAAT TGACCTGTAA ATCTTGCCAG 960
 TTATATCACT GCATTATCA TAGCACATTG CAAACACATA ATATCTCTAC TTTGATGATT 1020
 TTAGTGTGCA TCCTTGGGCT ATGGATTCTT GTTAATCTGT CTGAGCCATG GGCTGCCACA 1080
 ATTGCTTTAC ATTTTGTGAA ACTTCTTCTA ACTCAGTTTA CTCATTGTGT CGGTAGAGGC 1140
 TTAGGCATGA TAATTTTTCG TATGTTTAC TTTGTCACAC TAATAATTC TGTGTGTATG 1200
 TCCTCTGTAG CTTTGCATAG TTCTATTCAA ACAGCTCAGT ATGTGGAGAA CTGACACGCG 1260
 ACAGTCAACC AAGGGTGGCT ACTTGAGAAT AAAATTAACA CTGAGTTACA AACTGAAGTG 1320
 GCAGTGTAT AATCCAGCAT TCTATGGTTA GGGGAACAAG TACAAAGCTT GCAATTGCAG 1380
 CAGTAATGT GTTGTCAATT TAATCACACT CATATTTGTG TAACCAACTT AGAATATAAC 1440
 CAAAGTAGAT ATCCATGGGA TCTTGTGAAA GCCCATTGTC AGGGAGCTTT CACATCCGAC 1500
 ATCACTTTTG ATATTGGTGA ATTACAAAAC AAAATTCTTG ATTTAAATAA ACAAATTCOA 1560
 GAGTTTCAGC CTCTTTTAGA AGACTGGACT GAATTCAGC AAGGCCCTGA GAGCGTCAAC 1620
 CCTTGGACCT ATCTAAAGCA CCACATTAACT ATCTTATATA TAGTTCTTGG AATAATGTTG 1680
 TTTTGTCTCT GTCTTCTGTT CATAGTCTGT AAAATCGAT GGACTGCCAA TCGGAGAAATG 1740
 AAAGCTACCC AGCCTGGCCT TACATTCTTT CACTTAATAC ATAAACAAGA AGGGGGAAAT 1800
 GTTGGGAGCC AAAAAGGCCA AAGGGATGGT GACCAACTCA GCATTCCACT GGAGGCTACA 1860
 TGATCAACA GCAAACGTGT TATCATGAAT ACAGAAATGT GGCAAACTCG CTCTGTGTCC 1920
 TGCCCAAGA AGTTTGTGAG GGCCATCGCT CCCTGGCCCC GGCTCTCTGA GGTATCTAC 1980
 TGGGACATCT AGAGCCTATT GTTCGAGGAA TGCAGTCTTG CAAGCCTACT CTGGACCGAG 2040
 CAGCTGACCT CTCTTCCAC ACCCCTTCTC ACTATCTCTT TTGCTAATA AATATGGAGG 2100
 GCTGTGTAAA GCTCAGGGCC CTGTGCTCACT AGAGGCAAGG TGTCCCTGA CCCTTCTTCC 2160
 AACAT

Seq ID NO: 216 Protein sequence

Protein Accession #: NP_115566.1

1 11 21 31 41 51
 | | | | |
 MLTGDIVDWG PKGQLDGKEE NQKSWHLKLV HWQAFNASS LYNTHIQSQS AAQIAWHGAG 60
 FSPPLQWHEY LGRKGPIQRM IWKAFFPMN GNIWVAILLS NNSNSKQHSI NVTFVKNIIT 120
 QFTVCFNIFY VFLAAKDKQL QVNNTQLTCK SCQLYHCINE STLQTHNIST LMILGCIPLG 180
 WIPVNLSEPW AATIALHFKV LLLTQFTHCV RRLGLMIIPA IVYLVTLIIS VVMSSVALHS 240
 SIQTAQYVEN WRTVNVQGWL LENKINTELQ TEVAVL

Seq ID NO: 217 DNA sequence

Nucleic Acid Accession #: FGENESH predicted

Coding sequence: 1..1566

1 11 21 31 41 51
 | | | | |
 ATGGTGAACC CCAAATCCAC TTCCTCCCTC TTCAGGTTAT GTTTTTGCT CTGAGGAGT 60
 CAGAACCTGT GGGTTGAAGA GCAAATCAA TGCAAAAACA TATTGGGCAT ATGTTCCCAA 120
 TCCCCAGCA GATAGGCCTA TACTTTGAG CTCACTCTCT CTGAGATTGA TCAAGATCAG 180
 GGAGAGTGGG CTCCAGGACC CCTAACTCCC CGTGACATAG AAAAGTTAGA CTCTCAGAAC 240
 AATGTCAATTA ATTATACCAC TCCACTGGAA GGACTCCCTT TGTATTATC CACAAGACG 300
 TCGCTCAGCC ATAGCTGTCT TGCAATTCAA GCTCAACAT GGTGAGTCA CTATGGAAAA 360
 ATTATGACT TATTAGTCT TGGTCTATT AATGTAACGT GTGTGCTAAC CAATCATTC 420
 CAGTCCAGTC ACCCTAATTG TGCTGATTAT ACAGAAATGA TTCCATTCAA TAGTTCCTAC 480
 CCCACTCTGT GGACCCAGTG TCTTGATCCA CTGGCTAGTA AACAAATAT GTCAACTGAA 540
 GACACTGTGG ATTGGGAACC TAAAGGTCAA TTAGATGAAA AAGGTGAAG TCAGAAATCA 600
 TGGCACAAC TTCACTGGCA TTGGCGGCAA GCTTTAATG CTCTCTCTTT ATACAAACGC 660
 AGAATCCAAT CCCAGTCTGC TGCTCAGATT GCTTGGCATG GAGCAGGCTT TAGCCCACT 720
 CTTCCTCAGT TGCATTATCT GGGGAGGAAA GGACCAATTC AAGAACTAT ATGGAAGGCA 780
 GCACTCCCAT TTATGAATGG CAACATCTGG ATTGGAACAC TGCTAATAA TAGCAATAGT 840
 AAGCAACACA GTCTTAATGT TGCAATTGTA AAGAATATCA CCACTCAGTT TACAGTTTGT 900
 GTTTTAACT CTATGCTCTT TTTGGCAGCT AAGAAGAACC AGCTTCAGGT GGAGAACTGG 960

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ACACGCACAG CTGACCAAGC GAGGCTACTT CAGAATAAAA TTAACACTGA GTTACAAACT 1020
GAAGTGGCAA TGTGAAATC CATGGITCTG TGGTTAGGAG AACAGGTACA AAGCTTGCAG 1080
TTGCAGCAGC AATTGCGTCA TCATTTTAAT CACATTCATA TTTGCGTAAC TAACTCAGAA 1140
TATAACCAAA GTGAGTATCC GTGGGACCTT GTGAAAGCCC ATTTGCAAGG AGCTTTCACA 1200
TCCAACATCA CCTTTGATAT TGGTGAATTA CAAAACAAAA TTATTGATT AAATAGGCAA 1260
ACTCAAGAA TTCAGCCTTC TTTAGAAGAC TGGACCGAAT TCCAGGAAGG CCTGGAGAGC 1320
CTCAACCCCT GGACCTATCT AAGGCACCAC ATTAACATCT TATATGAGT TCTTGGAAAT 1380
ATGTTGTTTT GTCTCTGTCT TCGGTTTATA GTCTGTAAAA TCGGATGGAC CACCAATTGG 1440
AGAAATGAGC CCTCCAGCC CAGCCTTACA TTCTTTCAAT TAATACATAA ACAGAAAGGG 1500
GGATATGCAG GGAGCCAAGG GCCTGTGGGA CGTGACCAAC TCAGCATTCT GCTGGAGGCT 1560
ATATGA

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Seq ID NO: 218 Protein sequence

Protein Accession #: FGENSEH predicted

1 11 21 31 41 51

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| | | | |
MVNPKSTSSL FRLCPLLRS QNLWVEBQIQ CKNILGICSQ SPSSMAYTLE LTPPEIYHDQ 60
GEWAPGPLTP RDIEKLDSQN NVINYTTPLG GLPLFITTKT SLSHSCLAIQ AQTWLSHYGK 120
IMYLLGLGSI NVTGVLTNHS QSSHPNCADY TEWIPFNSSY PTLWTQCLDP LASKQYMSTE 180
DTVDWEPKQ LDGKGESQKS WHKLHWHWRQ AFNASSLYNS RIQSQSAAQI AWHGAGFSPP 240
LPQLHYLGRK GPIQETIWKI ALPFMNGNIW IGTLSMNSNS KQHSLLNVAFV KNITTQFTVC 300
VFNPYAFLLA KKNQLQVENW TRTADQARLL QNKINTEIQT EVAMLKSMVL WLGEQVQSLQ 360
LQQQLRHHFN HIHICVTNSE YNQSEYPWDL VKAHLQGAFT SNITFDIGEL QNKIIDLNRQ 420
TQEFQPSLED WTEFQEGLES LNPWTYLRHH INILYVVLGI MLFCLCLRFI VCKIGWTTNW 480
RMRASQPSLT FFQLIHKQKG GYAGSQRPVG RDQLSILLEA I

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Seq ID NO: 219 DNA sequence

Nucleic Acid Accession #: FGENSEH predicted

Coding sequence: 1..900

1 11 21 31 41 51

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| | | | |
ATGCCGCCGC GGGAGCTGAG CGAGGCCGAG CCGCCCCCGC TCCGGGCCCC GACCCCTCCC 60
CCGCGGCGGC GTAGCGCGCC CCCAGAGCTG GGCATCAAGT GCGTGTCTGT GGGCGACGGC 120
GCCGTGGGCA AGAGCAGCCT CATCGTCAGC TACACCTGCA ATGGGTACCC CGCGCGCTAC 180
CGGCCCACTG CGCTGGACAC CTTCTCTGCT ACCTACGTTT AATCGCCCGT CGCGCCGCGT 240
GGCTGCGGGC GGGCTGTGCA CCGGGGAGCT GGGGCGGGCG TCTCGGCGGG AGGGCGCAGA 300
GGACCCCGGG GAGGAGACTG GAGCAGGCC CAGAGTGGCG CTGGTGGCGC CCAGGACGCT 360
CTTCCTAACT CAGGCTCTCC CCGCCCCGCC CCGTGTGCTG AAGTCTGTGT GGATGGAGCT 420
CCGCTGCGCA TTGAGCTCTG GGACACAGCG GGACAGGAGG ATTTTGACCG ACTTCGTTCC 480
CTTTGCTACC CGGATACCGA TGTCTTCCTG GCGTGTCTCA GCGTGTGCA GCCAGCTCC 540
TTTCAAACA TCACAGAGAA ATGGCTGCCG GAGATCCGCA CGCACAACCC CCAGGCGCCT 600
GTGCTGTCTG TGGCACCCCA GCGCGACCTG AGGGACGATG TCAACGTACT AATTGAGCTG 660
GACCAGGGGG GCGGGGAGGG CCGCGTCCCG CAACCCAGG CTGAGGGTCT GGCCGAGAAG 720
ATCCGCTGCT GCTGCTACTT TGAGTGTCTA GCCTTGACGC AGAAGAAGCT GAAGGAAGTA 780
TTTGACTCGG CTATTCTCAG TGCCATTGAG CACAAAGCCC GGCTGGAGAA GAAACTGAAT 840
GCCAAGGTG TGCCACCCCT CTCCCGCTGC CGCTGGAAGA AGTTCCTCTG CTTCGTTTGA

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Seq ID NO: 220 Protein sequence

Protein Accession #: FGENSEH predicted

1 11 21 31 41 51

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| | | | |
MPPRELSEAE PPPLRAPTPP PRRRSAPPEL GIKCVLVGDG AVGKSSLIVS YTCNGYPARY 60
RPTALDTFSG TVVQSPVVRP GCGAVHARGA GAGVSAGRRR GPRGGWSRP RGGAGAAQDA 120
LPNSGSPRPA PAVQVLVDGA FVRIELWDTA GQEDFDRLRS LCYPDTDVFL ACFVSVQPS 180
FQNIETKWL P EIRTHNPQAP VLLVGTQADL RDDVNVLIQL DQGGRBGPVP QPQAQGLAEK 240
IRACCYLECS ALTOQNLEKEV FDSAILSABE HKARLEKKLN AKGVRTL SRC RWEKFFCFV

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Seq ID NO: 221 DNA sequence

Nucleic Acid Accession #: XM_063832.2

Coding sequence: 1..711

1 11 21 31 41 51

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| | | | |
ATGCCGCCGC GGGAGCTGAG CGAGGCCGAG CCGCCCCCGC TCCGGGCCCC GACCCCTCCC 60
CCGCGGCGGC GTAGCGCGCC CCCAGAGCTG GGCATCAAGT GCGTGTCTGT GGGCGACGGC 120
GCCGTGGGCA AGAGCAGCCT CATCGTCAGC TACACCTGCA ATGGGTACCC CGCGCGCTAC 180
CGGCCCACTG CGCTGGACAC CTTCTCTGTG CAAGTCTGTG TGGATGAGC TCCGCTGCGC 240
ATTGAGCTCT GGGACACAGC GGGACAGGAG GATTTTGACC GACTTCGTTT CCTTTGTAC 300
CCGGATACCG ATGTCTTCCT GCGTGTCTTC AGCGTGGTGC AGCCGAGCTC CTTTCAAAC 360
ATCACAGAGA AATGGCTGCC CGAGATCCGC ACGCACAACC CCCAGGCGCC TGTGCTGTG 420
GTGGGCAACC AGGCCGACCT GAGGGACGAT GTCAACGTAC TAATTGAGCT GGACCGGGG 480
GGCGGGGAGG GCGCGTGC CCAACCCAG GCTCAGGCTG TGCCCGAGAA GATCCGAGCC 540
TGCTGTACC TTGAGTCTC AGCCTTGACG CAGAAGAAGT TGAAGGAAGT ATTTGACTGC 600
GCTATTCTCA GTGCCATTGA GCACAAAGCC CGGCTGGAGA AGAACTGAA TGCCAAAGGT 660
GTGCGCAACC TCTCCGCTG CCGCTGGAAG AAGTCTCTCT GCTTCGTTTG A

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Seq ID NO: 222 Protein sequence

Protein Accession #: XP_063832.1

1 11 21 31 41 51

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MPPRELSEAE PFPLRAPTPP PRRRSAPPEL GIKCVLVGDG AVGKSSLIVS YTCNGYPARY 60
 RPTALDTPSV QVLVDGAPVR IELWDTAGQE DFDRLRLSLCY PDTDVFLACF SVVQPSFSQFN 120
 ITEKNLPEIR THNPQAPVLL VGTQADLRDD VNVLIQLDQG GREGVPVPQPO AQGLAEKIRA 180
 CCYLECSALT QKNLEKVFDS AILSAIEHKA RLEKKLNAGK VRTLSRCRWK KPFCFV

Seq ID NO: 223 DNA sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..1161

1 11 21 31 41 51
 | | | | |
 ATGAATCGGC ACCATCTGCA GGATCACTTT CTGGAATAG ACAAGAAGAA CTGCTGTGTG 60
 TTCCGAGATG ACTTCATTGC CAAGGTGTG CCGCCGGTGT TGGGGCTGGA GTTTATCTTT 120
 GGGCTTCTGG GCAATGGCCT TGCCCTGTGG ATTTTCTGTT TCCACCTCAA GTCCCTGGAAA 180
 TCCAGCCGGA TTTTCTGTGT CAACCTGGCA GTAGCTGACT TTCTACTGAT CATCTGCCTG 240
 CCGTTCGTGA TGGACTACTA TGTGCGGCGT TCAGACTGGA AGTTTGGGGA CATCCCTTGC 300
 CGGCTGTGTG TCTTCATGTT TGCCATGAAC CGCCAGGGCA GCATCATCTT CCTCACGGTG 360
 GTGGCGGTAG ACAGGTATTT CCGGGTGGTC CATCCCCACC ACGCCCTGAA CAAGATCTCC 420
 AATTGGACAG CAGCCATCAT CTCTTGCCCT CTGTGGGGCA TCACTGTGGG CTTAACAGTC 480
 CACCTCCTGA AGAAGAAGTT GCTGATCCAG AATGGCCCTG CAAATGTGTG CATCAGCTTC 540
 AGCATCTGCC ATACCTTCGG GTGGCAGGAA GCTATGTTCC TCCTGGAGTT CCTCCTGCCC 600
 CTGGGCATCA TCTGTGTTCTG CTCAGCCAGA ATTATCTGGA GCCTGCGGCA GAGACAAATG 660
 GACCGGCATG CCAAGATCAA GAGAGCCATC ACCTTCATCA TGGTGGTGGC CATGCTCTTT 720
 GTCATCTGCT TCCTTCCCAAG CGTGGTTGTG CGGATCCGCA TCTTCTGGCT CCTGCACACT 780
 TCGGGCAGCG AGAATTGTGA AGTGTACCGC TCGGTGGACC TGGCGTTCTT TATCACTCTC 840
 AGCTTCACTT ACATGAACAG CATGCTGGAC CCGTGGTGT ACTACTTCTC CAGCCCATCC 900
 TTTCCCAACT TCTTCTCCAC TTTGATCAAC CGCTGCCTCC AGAGGAAGAT GACAGGTGAG 960
 CCAGATAATA ACCGAGCAGC GAGCGTCGAG CTCACAGGGG ACCCAACAA AACCAGAGGC 1020
 GCTCCAGAGG CGTTAATGGC CAACTCCGGT GAGCCATGGA GCCCTCTTA TCTGGGCCCA 1080
 ACCTCAAATA ACCATTCCAA GAAGGGACAT TGTCACCAAG AACCAGCATC TCTGGAGAAA 1140
 CAGTGGGAT GTTGCATCGA G

Seq ID NO: 224 Protein sequence
 Protein Accession #: Eos sequence

1 11 21 31 41 51
 | | | | |
 MNRHHLQDHF LEIDKKNCCV FRDDPIAKVL PPVLGLEFIF GLLGNGLALW IFCFHLKSWK 60
 SSRIFLENLA VADFLLIICL PFVMDYVRR SDWKFGDIPC RLVLFMFAMN RQGSIIPLTV 120
 VAVDRYFRV HPHHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF 180
 SICTTFRWHE AMFLLEFLLP LGIILFCSAR IWSLRQROM DRHAKIKRAI TFIMVVAIVP 240
 VICFLPSVVV RIRIFWLLHT SGTQNCVYR SVDLAFFITL SFTYMNSMLD PVVYFSSPS 300
 PFNFFSTLIN RCLQRKMTGE PDNNRSTSVL LTGDPNKTRG APEALMANSG EPWSPSYLGP 360
 TSNHNSKKGH CHQEPASLEK QLGCCIE

Seq ID NO: 225 DNA sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..1092

1 11 21 31 41 51
 | | | | |
 ATGAATCGGC ACCATCTGCA GGATCACTTT CTGGAATAG ACAAGAAGAA CTGCTGTGTG 60
 TTCCGAGATG ACTTCATTGT CAAGGTGTG CCGCCGGTGT TGGGGCTGGA GTTTATCTTC 120
 GGGCTTCTGG GCAATGGCCT TGCCCTGTGG ATTTTCTGTT TCCACCTCAA GTCCCTGGAAA 180
 TCCAGCCGGA TTTTCTGTGT CAACCTGGCA GTGGCTGACT TTCTACTGAT CATCTGCCTG 240
 CCCTTCTCTG TGGACAACTA TGTGAGGCGT TGGGACTGGA AGTTTGGGGA CATCCCTTGC 300
 CGGCTGATGC TCTTCATGTT GGCTATGAAC CGCCAGGGCA GCATCATCTT CCTCACGGTG 360
 GTGGCGGTAG ACAGGTATTT CCGGGTGGTC CATCCCCACC ACGCCCTGAA CAAGATCTCC 420
 AATCGGACAG CAGCCATCAT CTCTTGCCCT CTGTGGGGCA TCACTATGGG CTTGACAGTC 480
 CACCTCCTGA AGAAGAAGAT GCCGATCCAG AATGGCGGTG CAAATTTGTG CAGCAGCTTC 540
 AGCATCTGCC ATACCTTCCA GTGGCAGGAA GCCATGTTCC TCCTGGAGTT CTCTCTGCCC 600
 CTGGGCATCA TCTGTGTTCTG CTCAGCCAGA ATTATCTGGA GCCTGCGGCA GAGACAAATG 660
 GACCGGCATG CCAAGATCAA GAGAGCCATC ACCTTCATCA TGGTGGTGGC CATGCTCTTT 720
 GTCATCTGCT TCCTTCCCAAG CGTGGTTGTG CGGATCCGCA TCTTCTGGCT CCTGCACACT 780
 TCGGGCAGCG AGAATTGTGA AGTGTACCGC TCGGTGGACC TGGCGTTCTT TATCACTCTC 840
 AGCTTCACTT ACATGAACAG CATGCTGGAC CCGTGGTGT ACTACTTCTC CAGCCCATCC 900
 TTTCCCAACT TCTTCTCCAC TTTGATCAAC CGCTGCCTCC AGAGGAAGAT GACAGGTGAG 960
 CCAGATAATA ACCGAGCAGC GAGCGTCGAG CTCACAGGGG ACCCAACAA AACCAGAGGC 1020
 GCTCCAGAGG CGTTAATGGC CAACTCCGGT GAGCCATGGA GCCCTCTTA TCTGGGCCCA 1080

Seq ID NO: 226 Protein sequence
 Protein Accession #: Eos sequence

1 11 21 31 41 51
 | | | | |
 MNRHHLQDHF LEIDKKNCCV FRDDPIKVL PPVLGLEFIF GLLGNGLALW IFCFHLKSWK 60
 SSRIFLENLA VADFLLIICL PFLMDYVRR WDWKFGDIPC RLMLFMLAMN RQGSIIPLTV 120
 VAVDRYFRV HPHHALNKIS NRTAAIISCL LWGITIGLTV HLLKKKMPIQ NGGANLCSSE 180
 SICTTQWHE AMFLLEFLLP LGIILFCSAR IWSLRQROM DRHAKIKRAI TFIMVVAIVP 240
 VICFLPSVVV RIRIFWLLHT SGTQNCVYR SVDLAFFITL SFTYMNSMLD PVVYFSSPS 300
 PFNFFSTLIN RCLQRKMTGE PDNNRSTSVL LTGDPNKTRG APEALMANSG EPWSPSYLGP 360
 TSP

Seq ID NO: 227 DNA sequence
Nucleic Acid Accession #: NM_006018
Coding sequence: 61..1224

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5      1      11      21      31      41      51
|      |      |      |      |      |
CGCCACTTTG CTGGAGCATT CACTAGGCGA GCGCTCCAT CGGACTCACT AGCCGCACTC 60
ATGAATCGGC ACCATCTGCA GGATCAGTTT CTGGAATAG ACAAGAAGAA CTGCTGTGTG 120
TTCCGAGATG ACTTCATTGC CAAGGTGTGG CCGCGGTGT TGGGGCTGGA GTTTATCTTT 180
GGGCTTCTGG GCAATGGCCT TGCCCTGTGG ATTTCTGTGT TCCACCTCAA GTCTTGAAA 240
TCCAGCGCGA TTTTCCTGTT CAACCTGGCA GTAGCTGACT TTCTACTGAT CATCTGCTGT 300
CGGTTCTGTA TGGACTACTA TGTGCGGCGT TCAGACTGGA ACTTTGGGGA CATCCCTTGC 360
CGGCTGTGTC TCTTCATGTT TGCCATGAAC CGCCAGGGCA GCATCATCTT CCTCAGGTG 420
GTGGCGGTAG ACAGGTATTT CCGGGTGGTC CATCCCAACC ACGCCCTGAA CAAGATCTCC 480
AATTGGACAG CAGCCATCAT CTCTTGCCCT CTGTGGGGCA TCAGTTTGG CCTAACAGTC 540
CACCTCCTGA AGAAGAAGTT GCTGATCCAG AATGSCCTG CAAATGTGTG CATCAGCTTC 600
AGCATCTGCC ATACCTTCCG GTGGCAGCAA GCTATGTTCC TCCTGGAGTT CCTCTGCCCC 660
CTGGGCATCA TCCTGTCTGT CTCACGCCAG ATTATCTGGA GCCTGCGGCA GAGACAAATG 720
GACCGGATG CCAAGATCAA GAGAGCCATC ACCTTCATCA TGGTGGTGGC CATCGTCTTT 780
GTCACTGTCT TCCTTCCAG CGTGGTTGTG CGGATCCGCA TCTTCTGGCT CCTGCACACT 840
TCGGGCACGC AGAATTGTGA AGTGTACCGC TCGGTGGACC TGGCGTTCTT TATCACTCTC 900
AGCTTCACTC ACATGAACAG CATGCTGGAC CCGTGGTGT ACTACTTCTC CAGCCCATCC 960
TTTCCCAACT TCTTCTCCAC TTTGATCAAC CGCTGCCTCC AGAGGAAGAT GACAGGTGAG 1020
CCAGATAATA ACCGAGCAGC GAGCGTGGAG CTCACAGGGG ACCCCACAA AACCAGAGGC 1080
GCTCCAGAGG CGTTAATGGC CAATCCCGGT GAGCCATGGA GCCCTCTTA TCTGGGCCCA 1140
ACCTCAAATA ACCATTCCAA GAAGGGACAT TGTACCAAG AACAGCATC TCTGGAGAAA 1200
CAGTTGGGCT TTGTCATCGA GTAATGTGAC TGGACTCGGC CTAAGTTCCT CTGGAACCTC 1260
CAGATTGAGA GAATCTGATT TAGGGAAACT GTGGCAGATG AGTGGGAGAC TGGTTGCAAG 1320
GTGTGACCA CAGGAATCCTG GAGGAACAGA GAGTAAAGCT TCTAGGCATC TGAACCTTGC 1380
TTCACTCTGT ACGCTCGCAG GACTGAAGAT GGGCAAATGT TAGGCGTTTC TGCTGAGCAG 1440
AGTTGGAGCC AGAGATCTAC TTGTGACTTG TTGSCCTTCT TCCACATCT GCTCAGACT 1500
GGGGGGGCTC CAGCTCTCTG GGTGATATCT AGCCTGCTTG TGAGCTCTAG CAGGGATAAG 1560
GAGAGCTGAG ATTGGAGGGA ATTGTGTTGC TCCTGGAGGA AGCCCAAGCA TCATTAAACA 1620
AGCCAGTAGG TCACCTGGCT TCCGTGGACC AATTCACTCT TCAGACAAGC TTTAGAGAAA 1680
TGGACTCAGG GAAGAGACTC ACATGCTTTG GTTAGTATCT GTGTTTCCGG TGGGTGTAAT 1740
AGGGGATTAG CCCCAGAAAG GACTGAGCTA AACAGTGITA TTATGGGAAA GGAATGGGCA 1800
TTGTCTCTTT CAACAGCGCA CTAATGCAAT CCATTCTCTC CTGTTTATA GTAATCTAAG 1860
GGTTGAGCAG TTAACAACGGC TTCAGGATAG AAGCTGTGTT CCCACCTGTT TCGTTTATCC 1920
ATTAAGAGGG AAACGTGCTC CTGCCCAAG GTGAGAGGGG GTGCACTTTC CTCTGGTTC 1980
CTTGCTGTGT GTTCTGTGAC TTACCAAAAA TCTACCACCT CAATAAATTT TGATAGGAGA 2040
CAAAAAAAA A

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Seq ID NO: 228 Protein sequence
Protein Accession #: NP_006009.1

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45      1      11      21      31      41      51
|      |      |      |      |      |
MNRHHLQDHF LEIDKKNCCV FRDDPIAKVL PPVLGLEFIF GLLGNGLALW IFCFHLKSWK 60
SSRIPLFHLA VADFLLIICL PFVMDYYVRR SDWNFGDIPC RLVLNFMFAMN RQGSIIFLTIV 120
VAVDRYFRVV HPHHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANCICIF 180
SICHTYFRWE AMFLLEFLLP LGIILFCSAR IISLRQRQM DRHAKIKRAI TFIMVVAIVP 240
VICFLPSVVV RIRISFWLHT SGTQNCVYR SVDLAPFITL SFTYMSMLD PVVYFSSPS 300
FPNFFSTLIN RCLQRKMTGE PDNNRSTSVL LTGDPNKTG APEALMANSF EPWSPSYLGP 360
TSNHSKKGH CHQEPASLEK QLGCCIE

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Seq ID NO: 229 DNA sequence
Nucleic Acid Accession #: NM_014398.1
Coding sequence: 64..1314

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60      1      11      21      31      41      51
|      |      |      |      |      |
GGCACGAGAT CGGGGCTGTC CGGACTTCG CCGCACGCTG CAGAACCTCG CCCAGGCCCC 60
ACCATGCCCC GGCAGCTCAG CGCGGCGGCC GCGCTCTTCG CGTCCCTGGC CGTAATTTTG 120
CAGATGGCA GTCAAATGAG AGCAAAAGCA TTTCCAGAAA CCAGAGATTA TTCTCAACCT 180
ACTGCAGCAG CAACAGTACA GGACATAAAA AAACCTGTCC AGCAACAGC TAAGCAAGCA 240
CCTCACAAA CTTTAGCAGC AAGATTCAAT GATGGTCATA TCACCTTTCA AACAGCGGCC 300
ACAGTAAAAA TTCCAACAAC TACCCAGCA ACTACAAAAA AACTGCAAC CACCAGCCCC 360
ATTACTACA CCTGTGTCAC AACCCAGGCC ACACCAACA ACTCACACAC AGCTCCTCCA 420
GTTACTGAG TTAGAGTGG CCCTAGCTTA GCCCCTTATT CACTGCCACC CACCATCACC 480
CCACCAGCTC ATACAGCTGG AACCAATTCA TCAACCGTCA GCCACACAAC TGGGAACACC 540
ACTCAACCCA GTAACAGAC CACCTTCCA GCACTTTAT CGATAGCACT GCACAAAAGC 600
ACACCGGTG AGAAGCTTGA TCAACCCACC CATGCCCAAG GAACAACGGC AGCTGCCACC 660
AATACCAACC GCACAGCTGC ACCTGCCTCC ACGGTTCTCT GGGCCACCTT TGCACTCAG 720
CCATGTGAG TCAAGACTGG AATTATCAG GTTCTAAAAG GAAGCAGACT CTGTATAAAA 780
GCAGAGATGG GGATACAGCT GATTGTTCAA GACAAGGAGT CGGTTTTTTC ACCTCGGAGA 840
TACTTCAACA TCGACCCCAA CGCAACGCAA GCCTCTGGGA ACTGTGGCAC CGGAAAATCC 900
AACCTTCTGT TGAATTTTCA GGGCGGATTT GTGAATCTCA CATTATCCAA GGATGAAGAA 960
TCATATTATA TCAAGTAAAT GGGAGCCTAT TTGACCGTCT CAGATCCAGA GACAGTTTAC 1020
CAAGGAATCA AACATGCGGT GGTGATGTT CAGACAGCAG TGGGCGATTC CTTCAAGTGC 1080
GTGAGTGAAC AGAGCCTCCA GTTGTGAGCC CACCTGCAGG TGAAACACAC CGATGTCCAA 1140
CTTCAAGCCT TTGATTTTGA AGATGACCAC TTTGGAAATG TGGATGAGTG CTCGCTGAC 1200
TACCAATATG TGCTTCTGTT GATTGGGGCC ATCGTGGTGG GTCTCTGCTT TATGGGTATG 1260
GGTGTCTATA AAATCGCCT AAGGTGTCAA TCATCTGGAT ACCAGAGAAT CTAATGTGTT 1320
CCGGGGGGA ATGAATAA TGAATTATG AGAACTCTTT CATCCCTTCC AGGATGGATG 1380

```

5 TTGGGAAATT CCCTCAGAGT GTGGGTCCTT CAAACAATGT AAACCACCAT CTTCTATTCA 1440
 AATGAAGTGA GTCATGTGTG ATTTAAGTTC AGGCAGCACA TCAATTTCTA AATACTTTTT 1500
 GTTTATTTTA TGAAAGATAT AGTGAGCTGT TTATTTTCTA GTTTCCTTTA GAATATTTTA 1560
 GCCACTCAAA GTCAACATTT GAGATATGTT GAATTAACAT AATATATGTA AAGTAGAATA 1620
 AGCCTTCAAA TTATAAACCA AGGTCAATT GTAACATAA CTACTGTGTG TGCATTGAAG 1680
 ATTTTATTTT ACCCTTGATC TTAACAAAGC CTTTGTCTTG TTATCAAATG GACTTTCAGT 1740
 GCTTTTACTA TCTGTGTTTT ATGGTTTCAT GTAACATACA TATTCCTGGT GTAGCACTTA 1800
 10 ACTCCTTTTC CACTTTAAAT TTGTTTTTGT TTTTGTAGAC GGAGTTTCAC TCTTGTCAAC 1860
 CAGGCTGGAG TACAGTGGCA CGATCTCGGC TTATGGCAAC CTCCGCCCTCC CGGGTTCAAG 1920
 TGATTCCTCT GCTTCAGCTT CCCGAGTAGC TGGGATTACA GGCACACACT ACCAGCCTG 1980
 GCTAATTTTT GTATTTTTAT TATAGACGGG TTTCACCATG TTGGCCAGAC TGGTCTTGAA 2040
 CTCTTGACCT CAGGTGATCC ACCCACCTCA GCCTCCCAAA GTGCTGGGAT TACAGGCATG 2100
 AGCCATTGCG CCGGCCCTTA AATGTTTTT TTAATCATCA AAAAGAACA CATATCTCAG 2160
 15 GTTGTCTAAG TGTTTTTATG TAAACCAAC AAAAGAACA AATCAGCTTA TATTTTTTAT 2220
 CTTGATGACT CCGTCTCCAG AATTGCTAGA CTAAGAATTA GGTGGCTACA GATGGTAGAA 2280
 CTAAACRAA AGCAAGAGAC AATAATAATG GCCCTTAATT ATTAACAAAG TGCCAGAGTC 2340
 TAGGCTAAGC ACTTTTCTA TATCTCATTT CATTCTCACA ACTTATAAGT GAATGAGTAA 2400
 ACTGAGACTT AAGGGAATC AATCACTTAA ATGTCACTG GCTAATCATG GGCAGAGCCA 2460
 20 GAGCTTGAAT TCAATTTGGT CTGACATCAA GGTCTTTGGT CTTCTCCCTA CACCAAGTTA 2520
 CCTACAAGAA CAATGACACC ACATCTCGCC TGAAGGCTCA CACCTCATAC CAGCATACGC 2580
 TCACCTTACA GGGAAATGGG TTTATCCAGG ATCATGAGAC ATTAGGGTAG ATGAAAGGAG 2640
 AGCTTTGACG ATAAACAAAT AGCCTATCCT TAATAAATCC TCCACTCTCT GGAAGGAGAC 2700
 TGAGGGGCTT TGTAACAAAT TAGTCAGITG CTCATTTTAA TGGGATTGCT TAGCTGGGCT 2760
 25 GTAAAGATGA AGGCATCAAA TAAACTCAAA GTATTTTTAA ATTTTTTTGA TAATAGAGAA 2820
 ACTTCGCTAA CCAACTGTTC TTCTCTGAGT GTATAGCCCC ATCTTGTGGT AACTTGTCTG 2880
 TTCTGCACTT CATATCCATA TTTCTTATTG TTCACCTTAT TCTGTAGAGC AGCCTGCCAA 2940
 GAATTTTATT TCTGTCTGTT TTTTGTCTGC TAAAGAAAGG AACTAAGTCA GGAATGTTAA 3000
 AGAAAGTCC ACATAACCTT AGAATTTCTA GTCAAGGAAT AATTCAGTCA AGCCTAGAGA 3060
 30 CATGTTGAC TTTCTCATG TGTTCCTTA TGACTCAGTA AGTTGGCAAG GTCCTGACTT 3120
 TAGTCTTAAT AAAACATTGA ATTGTAGTAA AGGTTTTTGC AATAAAAACT TACTTTGG

Seq ID NO: 230 Protein sequence
 Protein Accession #: NP_055213.1

35 1 11 21 31 41 51
 | | | | | |
 MPRQLSAAAA LFASLAVILH DGSQMRAXAP PETRDYSQPT AAATVQDIKK PVQPPAKQAP 60
 HQTLAARFMD GHITFQTAAT VKIPTTTTAT TKNTATTSPI TYTLVTQTAT PNNSTAPPV 120
 TEVTYVPSLA PYSLPPTITP PAHTAGTSSS TVSHITGNTT QPSNQITLPA TLSIALHKST 180
 40 TGQKPDQPTH APGTTAAAHN TTRTAAPAST VPGPTLAPQP SSVKTGIYQV LNSRLCIKA 240
 EMGIQLIVQD KESVFSPPRY FNIDPNATQA SGNGCRKSN LLLNFGGQFV NLFTTXDEES 300
 YYISVUGAYL TVSDPETVYQ GIKHAVVMFQ TVAGHSFKCV SEQSLQLSAH LQVKTIDVQL 360
 QAFDFEDDFH GNVDECSSDY TIVLPVIGAI VVGLCLMGMS VYKIRLRQCS SGYQRI

45 Seq ID NO: 231 DNA sequence
 Nucleic Acid Accession #: NM_005409.3
 Coding sequence: 94..378

50 1 11 21 31 41 51
 | | | | | |
 TTCTTTTCAT GTTCAGCATT TCTACTCCTT CCAAGAAGAG CAGCAAAGCT GAAGTAGCAG 60
 CAACAGCACC AGCAGCAACA GCACAGAGTGA AACATGAGTG TGAAGGGCAT GGCTATAGCC 120
 TTGGCTGTGA TATGTGTGTC TACAGTGTGT CAAGGCTTCC CCATGTTCAA AAGAGGAGCG 180
 TGCTTTTGA TAGGCCCTGG GSTAAAAGCA GTGAAAGTGG CAGATATTGA GAAAGCCTCC 240
 55 ATAATGTACC CAAGTAACAA CTGTGACAAA ATAGAAGTGA TTATTACCCT GAAAGAAAA 300
 AAGGAGCAAC GATGCTTAAA TCCCAATCG AAGCAAGCAA GGCTTATAAT CAAAAAGTT 360
 GAAAGAAAGA ATTTTAAATA ATATCAAAAC ATATGAAGTC CTGGAAAAGG GCATCTGAAG 420
 AACCTAGAAC AAGTTAACT GTGACTACTG AAATGACAAG AATTCTACAG TAGGAACTG 480
 AGACTTTTCT ATGGTTTTGT GACTTTCAAC TTTTGTACAG TTATGTGAAG GATGAAAGGT 540
 60 GGGTGAAAGG ACCAAAACA GAAATACAGT CTTCTGAAT GAATGACAAT CAGAATTCCA 600
 CTGCCCAAG GAGTCCAGCA ATTAATGGA TTTCTAGGAA AAGCTACCTT AAGAAAGGCT 660
 GGTACCATC GGAGTTTACA AAGTGTCTT ACCTTCTTAC TTGTTGTATT ATACATTCAT 720
 GCATTTCTAG GCTAGAGAAC CTTCTAGATT TGATGCTTAC AACTATTCTG TTGTGACTAT 780
 GAGAACATTT CTGTCTCTAG AAGTTATCTG TCTGTATTGA TCTTTATGCT ATATTACTAT 840
 65 CTGTGGTTAC AGTGAGACA TTGACATTAT TACTGGAGTC AAGCCCTTAT AAGTCAAAAG 900
 CATCTATGTG TGSTAAAGCA TTCTCAAAAC ATTTTTCAT GCAATACAC ACTTCTTTCC 960
 CCAAAATCA TGATGACAT CAATATGTAG GGAAACATTC TTATGCATCA TTTGGTTTGT 1020
 TTTATAACA ATTCATTAAA TGTAATTCAT AAAATGTACT ATGAAAAAAA TTATACGCTA 1080
 TGGGACTAGT GCAACAGTGC ACATATTCA TAACCAAATT AGCAGCACCG GTCTTAATTT 1140
 70 GATGTTTTTC AACTTTTATT CATTGAGATG TTTTGAAGCA ATTAGGATAT GTGTGTTTAC 1200
 TGTACTTTTT GTTTTATGCC GTTTGTATAA ATGATAGCAA TATCTGGAC ACATTTGAAA 1260
 TACAAATGT TTTTGTCTAC CAAAGAAAAA TGTGTAAAAA TAAGCAAGATG TATACCTAGC 1320
 AATCACTTTT ACTTTTGTGA ATTCTGTCTC TTAGAAAAAT ACATAATCTA ATCAATTTCT 1380
 75 TTGTTCTATG CTATATACTG TAAAATTAG GTATACTCA GACTAGTTTA AAGATCAAA 1440
 GTCATTTTTT TCTCTAATAA ACTACCACAA CCTTCTCTTT TTAACAAAAA AAA

Seq ID NO: 232 Protein sequence
 Protein Accession #: NP_005400.1

80 1 11 21 31 41 51
 | | | | | |
 MSVKGMALAL AVILCATVVQ GFPMFKRGRC LCIGPGVKAV KVADIEKASI MYPNNCDKI 60
 EVIITLKENK GQRCLNPKSK QARLIKKVE RKNF

Seq ID NO: 233 DNA sequence
Nucleic Acid Accession #: NM_000577.1
Coding sequence: 41..520

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5      1      11      21      31      41      51
      |      |      |      |      |      |
GGCAGCAGGG GAAGACCTCC TGTCTATCA GGCCCTCCCC ATGGCTTTAG AGACGATCTG 60
CCGACCCCTCT GGGAGAAAAT CCAGCAAGAT GCAAGCCTTC AGAATCTGGG ATGTTAACCA 120
GAAGACCTTC TATCTGAGGA ACAACCAACT AGTTGCCGGA TACTTGCAAG GACCAAATGT 180
10    CAATTTAGAA GAAAAGATAG ATGTGGTACC CATTGAGCCT CATGCTCTGT TCTTGGGAAT 240
CCATGGAGGG AAGATGTGCC TGTCTGTGT CAAGTCTGGT GATGAGACCA GACTCCAGCT 300
GGAGGCAGTT AACATCACTG ACCTGAGCGA GAACAGAAAG CAGGACAAGC GCTTCGCCTT 360
CATCCGCTCA GACAGTGGCC CCACCACCAG TTTTGAGTCT GCGCCTTGCC CCGGTTGGTT 420
CCTCTGCACA GCGATGGGAG CTGACCAGCC CGTCAGCCTC ACCAATATGC CTGACGAAAG 480
15    CGTCATGCTC ACCAAATTCT ACTTCCAGGA GGAAGAGTAG TACTGCCCAG GCCTGCCTGT 540
TCCCATTCCT AATTGCCAAG GACTGCAGGG ACTGCCAGTC CCCCTGCCCC AGGGCTCCCG 600
GCTATGGGGG CACTGAGGAC CAGCCATTGA GGGGTGGACC CTCAGAAGGC GTCACAACAA 660
CCTGTGCACA GGACTCTGCC TCCTCTTCAA CTGACCAGCC TCCATGCTGC CTCCAGAAATG 720
GTCTTTCTAA TGTGTGAATC AGAGCACAGC AGCCCTGCA CAAAGCCCTT CCATGTGCGC 780
20    TCTGATTCFA GGATCAAACC CCGACCACCT GCCCAACCTG CTCTCTCTT GCCACTGCCT 840
CTTCCTCTCT CATTCCACCT TCCATGCCCT TGGATCCATC AGGCCACTTG ATGACCCCA 900
ACCAAGTGCG TCCCACACCC TGTTTTACAA AAAAGAAAAG ACCAGTCCAT GAGGAGGGTT 960
TTTAAGGGTT TGTGAAAATG GAAAATTAGG ATTTCTATGAT TTTTCTTTT CAGTCCCCGT 1020
GAAGGAGAGC CCTTCAATTG GAGATTATGT TCTTTCGGGG AGAGGCTGAG GACTTAAAT 1080
25    ATTCTGTGAT TGTGAAATG ATGGTGAAAG TAAGTGGTAG CTTTTCCCTT CTTTTCTTTC 1140
TTTTTTTGTG ATGTCCCAAC TTGTAAAAT TAAAGTTAT GGTACTATGT TAGCCCCATA 1200
ATTTTTTTTT TCCTTTTAAA ACACCTTCCAT AATCTGGACT CCTCTGTCCA GGCAGTCTGT 1260
CCCAGCCTCC AGCTTCCATC TCCACTCCAG ATTTTTCACA GCTGCCTGCA GTACTTTACC 1320
TCCATTCAGA AGTTTCTCAG CTCCCAAGGC TCTGAGCAAA TGTGGCTCCT GGGGGTTCTT 1380
30    TCTTCTCTG CTGAAGGAAT AAATTGCTCC TTGACATTGT AGAGCTTCTG GCACCTGGAG 1440
ACTTGTATGA AAGATGGCTG TGCCTCTGCC TGCTCTCCCC ACCAGGCTGG GAGCTCTGCA 1500
GAGCAGGAAA CATGACTCGT ATATGTCTCA GGTCCCTGCA GGGCCAAGCA CCTAGCCTCG 1560
CTCTTGGCAG GTACTCAGCG AATGAATGCT GTATATGTGT GGTGCAAAAT TCCCTACTTC 1620
35    CTGTGACTTC AGCTCTGTTT TACAAATAAA TCTTGAAAT GCCTAAAAAA AAAAAAAA 1680
AAAAAAA AAAA AAAA AAAA

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Seq ID NO: 234 Protein sequence
Protein Accession #: NP_000568.1

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40      1      11      21      31      41      51
      |      |      |      |      |      |
MALETICRPS GRKSSRMQAF RIWDVNQKTF YLRNQLVAG YLQGNVNLB EKIDVVPFEP 60
HALFLIHGG KMCLSCVKG DETRLQLEAV NITDLSENK QDKRFAPFIRS DSGPTTSFES 120
AACPGWFLCT AMBADQPVSL TNMPDEGVMV TKFYFQEDF

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Seq ID NO: 235 DNA sequence
Nucleic Acid Accession #: NM_001840.1
Coding sequence: 149..1567

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50      1      11      21      31      41      51
      |      |      |      |      |      |
GGGGACTACG GAGAGCTCTG CAGGGAGCCG AGGCCCCCGC CCGGGCCAAG GGAGCTTCTG 60
TCCGAGGAGC CAGGGGATGC GAAGGGATTG CCCCTGTGGG GTCACTTTCT CAGTCATTTT 120
GAGCTCAGCC TAATCAAAGA CTGAGGTTAT GAAGTCGATC CTAGATGGCC TTGCAGATAC 180
55    CACCTTCCCG ACCATCACCA CTGACCTCCT GTAAGTGGGC TCAATGACA TTCAGTACGA 240
AGACATCAAA GGTGACATGG CATCCAAATT AGGGTACTTC CCACAGAAAT TCCCTTTAAC 300
TTCTTTTAGG GGAAGTCCCT TCCAAGAGAA GATGACTGCG GGAGACAACC CCCAGCTAGT 360
CCCAGCAGAC CAGGTGAACA TTACAGAAAT TTACAACAAG TCTCTCTCGT CCTTCAAGGA 420
60    GAATGAGGAG AACATCCAGT GTGGGGAGAA CTTTATGGAC ATAGAGTGTG TCATGGTCCT 480
GAACCCAGCG CAGCAGCTGG CCATTGCACT CCTGTCCCTC ACGCTGGGCA CCTTCAAGGT 540
CCTGGAGAAC CTCCTGGTGC TGTGCTCAT CCTCCACTCC GCGAGCCTCG GCTGCAGGCC 600
TTCTTACCAC TTCTACGGCA GCCTGGCGGT GGCAGACCTC CTGGGGAGTG TCATTTTGTG 660
CTACAGCTTC ATTGACTTCC ACGTGTTCCT CCGCAAGAT AGCCGCAACG TGTTCCTGTT 720
65    CAAACTGGGT GGGGTCAOAG CCTCCTTCAC TGCCCTCGTG GGCAGCCTGT TCCTCACAGC 780
CATGCACAGG TACATATCCA TTCACAGGCC CCTGGCCTAT AAGAGGATTG TCACAGAGCC 840
CAAGGCCGTG GTGGCGTTTT GCCTGATGTG GACCATAGCC ATTGTGATCG CCGTGTCTGC 900
TCTCCTGGGC TGGAACTGCG AGAAACTGCA ATCTGTTTGC TCAGACATTT TCCCACACAT 960
TGATGAAACC TACCTGATGT TCTGGATCGG GGTCAACAGC GTACTGCTTC TGTTCATCGT 1020
70    GTATGCGTAC ATGTATATTC TCTGGAAGGC TCACAGCCAC GCGGTCCGCA TGATTACAGC 1080
TGGCACCAGC AAGAGCATCA TCATCCACAC GTCTGAGGAT GGGAGGTAC AGGTGACCCG 1140
GCCAGACCAA GCCCGCATGG ACATTAGGTT AGCCAAGACC CTGGTCTGTA TCCTGGTGGT 1200
GTTGATCATC TGCTGGGGCC CTCTGCTTGC AATCATGGTG TATGATGTCT TTGGGAAGAT 1260
GAACAAGCTC ATTAAGACGG TGTGTGATT CTGCAGTATG CTCTGCCTGC TGAATCCAC 1320
75    CGTGAACCCC ATCATCTATG CTCTGAGGAG TAAGGACCTG CGACACGCTT TCCGGAGCAT 1380
GTTTCCCTCT TGTGAAGGCA CTGCGCAGCC TCTGATAAC AGCATGGGGG ACTCGGACTG 1440
CCTGCACAAA CCGCAACA CAATGAGCCAG TGTTCACAGG GCGCAGAAA GCTGCATCAA 1500
GAGCACGGTC AAGATTGCCA AGGTAACCAT GTCTGTGTCC ACAGACAGCT CTGCCAGGCC 1560
TCTGTAGGCC TGATGCCTCC CTGGCAGCAC AGGAAAAGAA TTTTCTTTT TAAGCTCAAA 1620
80    ATCTAGAGGA GTCTATGTCT TCCTTGGTTA TATTTTTTAA ACTTTACCAT GCTCAATGAA 1680
AAGGTGATTG CCACATGTCA CTTATTGCT TAGTTTCCGT TTGGGCTAAT CTTCGGGGT 1740
TGTAGGAAA CCTTT

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Seq ID NO: 236 Protein sequence
Protein Accession #: NP_001831.1

	1	11	21	31	41	51	
5	MKSILDGLAD	TFPTITTDL	LYVGSNDIQY	EDIKGDMSK	LGYPPOKFP	TSFRGSPFQE	60
	KMTAGDNPQL	VPADQVNITE	FYNKSLSSFK	ENEENIQCE	NFMDIECFMV	LNPSQQLAIA	120
	VLSLTGTFT	VLENLLVLVC	ILHSRSLRCR	PSYHFIGSLA	VADLLGSVIF	VYSFIDFHV	180
	HRKDSRNVL	FKLGGVTASF	TASVGSFLT	AIDRYISIHR	PLAYKRIVTR	PRAVVAFCLM	240
	WTIAIVIAVL	PLLGWNECKL	QSVCSDFPH	IDETYLFWI	GVTSVLLLP	VYAYMYLWK	300
10	AHSHAVRMQ	RGTKSKIIH	TSEDGKVQVT	RPDQARMDIR	LAKTLVLILV	VLIICWGPLL	360
	AIMVYDVGK	MNKLIKTVFA	PCSMCLLNS	TVNPIIYALR	SKDLRHAFRS	MEFSPCEGTAQ	420
	PLDNSMGDS	CLHKHANNA	SVHRAESC	KSTVKIAKVT	MSVSTDTSAE	AL	

Seq ID NO: 237 DNA sequence

Nucleic Acid Accession #: NM_016083.2

Coding sequence: 64..1482

	1	11	21	31	41	51	
20	GATTGCCCCC	TGTGGGTCAC	TTTCTCAGTC	ATTTTGAGCT	CAGCCTAATC	AAAGACTGAG	60
	GTTATGAAGT	CGATCCTAGA	TGGCCTTGCA	GATACCACT	TCCGACCAT	CACCACTGAC	120
	CTCCTGTACG	TGGGCTCAAA	TGACATTCAG	TACGAAGACA	TCAAAGGTGA	CATGGCATCC	180
	AAATTAGGGT	ACTTCCACAC	GAAATTCCT	TTAACTTCCT	TTAGGGGAAG	TCCTTCCAA	240
	GAGAAGATGA	CTGGGGGAGA	CAACCCCCAG	CTAGTCCAG	CAGACCAGGT	GAACATTACA	300
25	GAATTTTACA	ACAAGTCTCT	CTCGTCTCT	AAGGAGAATG	AGGAGAACAT	CCAGTGTGGG	360
	GAGAACTTCA	TGACATAGA	GTGTTTCATG	GTCCGTGAAC	CCAGCCAGCA	GCTGGCCATT	420
	GCAGTCTCTG	CCCTCAGCT	GGGCACCTTC	ACGGTCTCTG	AGAACCTCT	GGTGTCTGTC	480
	GTCACTCTCC	ACTCCGCGAG	CCTCCGCTGC	AGGCCTCTCT	ACCACTTCAT	CGGCAGCTCT	540
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	AGGCCCTCTG	CCTATAGAG	GATTGTCAAC	AGGCCCAAGG	COGTGGTGGC	GTTTTCCTG	780
	ATGTGACCA	TAGCCATTGC	GATCGCCGTG	CTGCCTCTCC	TGGGCTGGAA	CTGCGAGAAA	840
	CTGCAATCTG	TTTGCTCAGA	CATTTTCCCA	CACATTGATG	AAACCTACCT	GATGTTCTGG	900
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	AAGGCTCACA	GCCACGCCGT	CCGCATGATT	CAGCGTGGCA	CCCAGAAGAG	CATCATCATC	1020
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	AGGTTAGCCA	AGACCTTGGT	CCTGATCTCT	GTGGTGTGTA	TCATCTGCTG	GGGCCCTTTG	1140
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TTAIVIAVL PLLGWNCERL QSVCSDFPHI DETYLMFWI VTSVLLLPV VYAYMYILWA 240
HSHAVRMQR GTQKSIHHT SEDGKQVTR RPDQARMDIR AKTLVLILV LIIICWGPPLA 300
IMVYDVFGKM NKLIKTVFA CSMLCLLNST VNPIIYALRS KDLRHAFRSM FPFSCGTAQ 360
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Seq ID NO: 241 DNA sequence
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Seq ID NO: 242 Protein sequence
Protein Accession #: NP_003587.1

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      LMVRDGRASV HSMISRKVTI AGFDLNSYRD CLTKWNRABE TMYNQCMFVYK YKCMHLVHYE 240
      QLVLFHFERWM RTLLKFLQIP WNHSLVHHEE MIGKAGGVS LSKVERSTDQV IKPYNVNGALS 300
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GTGGTCATGC TGCTCCACCA CGTGGTCACT CTCATCTCTA TCGTCTCTCT CTAAGCCTTC 660
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TACTGTTTCC TGTACATCGT GCGTITTTGA GCCAAGGTGT TGACAGGCCA GGTGCACGAG 1020
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TCCACCCCTT GCAACTCTGC TCCTTAGGG CCGCGGCCAC CTCCTCTGGG ACCCGCGCCC 1260
CTCATCTGCG CTCACATTCC CGGCCACGCC CCGCAGGACC CTTGCCCTCT CGGGGACACC 1320
GGCCCGCCCC TCAGCCCATC GGTCCCGGGC CGCGCGGGAC CTTGCGCACT CTCTGTCTAT 1380
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CGCGCGCCCT GCTCAGGCT CTAGGACTGC GCGATGAGCC CAGGGTGGCG CCGAGGCTCC 1560
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CGGACCCCGG GCGGTGTGCT CTCGCCCATG TGGTCCCGCG CTTGGGGCCG CCAGTGGCGG 1980
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ACCAAGCTGT GCTGCGCGCG CTCATGCACG CGGCCGCCCC GGGAGCGGCC GACCTGCCCT 2400
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Seq ID NO: 246 Protein sequence
Protein Accession #: NP_067090.1

1 11 21 31 41 51
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FGTDYPPFHD PPSVFDWTF GMAVPRDIAA AYLLQGSFYG HSIYATLYMD TWRKDSVVML 180

LHHVVTLLILI VSSYAFRYHN VGILVLFPHD ISDVQLEFTK LNIYFKSRGG SYHRLHALAA 240
 DLGCLSPFGS WFWFRLYWFP LKVLATSHC SLRTVPDIPF YFFFNALLLL LTLMLNLYWFL 300
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Seq ID NO: 247 DNA sequence
 Nucleic Acid Accession #: NM_002081.1
 Coding sequence: 222...1898

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 15 GCTGCTGCTG GCTATGTGCG GCCGAGCGCG TGGTGCCTTG CCGCGCGCGG GACCGCGCGA 300
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 CGGACGTGCT CACAGCGGAG ATCTCGGGTG AGCACTGCG GATCTGTCCC CAGGGCTACA 420
 CTGCTGCGCA CAGCAGATG GAGGAGAAC TGGCCAAAC CAGCCATGCC GAGCTGGAGA 480
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 40 GCTCCAGCTC CCGGACGCGC TTGACCCATG CCTCCCGAG CCGTGTGAG CAGGAAGGAC 1800
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75

Seq ID NO: 248 Protein sequence
 Protein Accession #: NP_002072.1

1 11 21 31 41 51
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 80 ICPQGYTCCT SEMEENLANR SHABLETALR DSSRVLQAML ATQLRSFDDH FOHLNDSE 120
 TLQATFPFAP GELYQNARA FRDLYSELRL YVRGANLHLE ETLAEFWARL LERLFPQLHP 180
 QLILLPDDYLD CLGQAEALR PFGBAPREL RLRATRAVAA RSFVQGLGVA SDVVRKVAQV 240
 PLGPECSRVA MNLVYCAHCL GVPGARPCPD YCRNVLKGLC ANQADLDAEW RNLLDSMVL 300
 TDKFWGTSGV ESVGIVSWHT LABAINALQD NRDTLTAKVI QCGNPKVNP QGPGPEBKRR 360

RGKLAPRERP PSGTLEKLVS EAKAQLRDVQ DFWISLPGTL CSEKMALSTA SDDRCWNGMA 420
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Seq ID NO: 249 DNA sequence
 Nucleic Acid Accession #: NM_001492.3
 Coding sequence: 8..1864

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 15 CTTCTTCAGA GTCTGCTGTA AGCCTGGGCT CTCAGAGGAG GCGCGGAGT CCCCCTGCGC 240
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 GCCTGATCTC CCATGTCGCG ACGGGCTCTT GCAGGTGCCC TTCGGGAGC CTTGGCCTGG 360
 CACCTTCTCT TTCATCATCG AAACCTGGAG AGAGGAGTTA GGAGACCAGA TTGGAGGGCC 420
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 GCGGTGCGGT CCGGACTGTC GCCCTGCGC ACGCTCGAG GAGCAATGTG AGGCGCGCTG 660
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 25 CAGCCCGGAC GTTCAAGCGG CAGGCGCCTG GGAGCTGCGC TTCTCGTACC GCGCGCGCTG 840
 TGACGGGAAC CCGTGTGCTA ATGGAGGCGG CTGTAGTGAG ACACCCAGGT CTTTGAATG 900
 CACCTGCGGT CCGTGGGTTCT ACGGGCTCGG GTGTGAGGTG AGCGGGGTGA CATGTGAGA 960
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 40 CTGCTCGGTA GATTGGGAATC GCCCTGAAGA TGTAGACCC CTCAAGGGATT ATGTCAATAT 1740
 TGCTCTCTCC ATCTAGCTTC GGGAGGTAGC GAGCGCCCTT TCCCCCGCG TACACACTGG 1800
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45 Seq ID NO: 250 Protein sequence
 Protein Accession #: NP_058637.1

1 11 21 31 41 51
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 50 RVCLKPGLSE EAESPICALG AALSARGPVY TEQPGAPAPD LPFLDGLLQV PFRDAWPGTF 120
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 55 PRGFYGLRCE VSGVTGADGP CFNGGLCVGG ADPD SAYICH CPPGFQGSNC EKRVDRCSLQ 360
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 PGLRPGDPQR YLLFPALGLL VAAGVAGAAL LLVHVRRRHH SQDAGSRLLA GTPEPSVHAL 540
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 60 GQRQHLLPEY PSSILSVK

Seq ID NO: 251 DNA sequence
 Nucleic Acid Accession #: CAT cluster

65 1 11 21 31 41 51
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 70 TTAGAAAGTC TGAGAGACTT TATACATAAA TTCTCAATTT GGCTGCTGTA CACGTGCCAG 240
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80 Seq ID NO: 252 DNA sequence
 Nucleic Acid Accession #: Eos sequence

1 11 21 31 41 51
 | | | | |
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GAAATTAGAC TTTTCAGAAA GTTTTACTTG GAAGGTTAAT AATTGTATC TACTGAGGAC 660
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TCTATTCAAA ATACAAGGAC AGATGCTTCT CTGTTCGAAG AGGGTTTCTT TGAGGAAGCT 780
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45 Seq ID NO: 253 DNA sequence
Nucleic Acid Accession #: NM_001650.2
Coding sequence: 40.1011

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TTTGTCTCC TCAGCCTGGG ATCCACCATC AACTGGGGTG GAACAGAAAA GCCTTTACCG 240
GTGACATAGG TCTCATCTC CTTTGTCTT GGACTCAGCA TTGCAACCAT GGTGCAAGTC 300
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TCCAAATCTA AAAAAAGAAA TATTTTAAAG ATGTTCTTAA GCAATATAT ACCTATTTTA 1260
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75 Seq ID NO: 254 Protein sequence
Protein Accession #: NP_001641.1

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AQCLGAIIGA GILYLVTPPS VVGGLGVTMV HGNLTAGHGL LVELIITFQL VFTIFASCD 180
KRTDVTGSIA LAIGFSVAIG HLFAINYTGA SMNPARSFGP AVIMGNWENH WIYVVGPIIG 240
AVLAGGLVEY VFPCDVEFKR RFKEAFSKAA QQTGKSYMEV EDNRSQVETD DLILKPGVVH 300

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VIDVDRGEEK KGRDQSGEVL SSV

Seq ID NO: 255 DNA sequence

Nucleic Acid Accession #: U26742.1

Coding sequence: 325..1449

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CTCAAACTCT	CCTGCAGACC	AATGGACACC	TTCTAAGAGT	TTGGCGAGTC	AGTGACTGAA	180
GGGCCCCGTC	ATTCCAAGAT	AAATAGGATT	TACCAATCCT	TGGATGAAGT	GCTTGGGAAG	240
TCTTTAAGTG	CCATAATCAA	CTGCCATTTC	AAAGAATATA	GATGGTTTGT	AAAAGTTCAT	300
GCTGTCCCTT	CATTGAATTT	TAGAATGATT	GAAGATAGTG	GGAAAAGAGG	AAATACCATG	360
GCAGAAAGAA	GACAGCTGTT	TGCAGAGATG	AGGGCTCAAG	ATCTGGATCG	CATCCGACTC	420
TCCACTTACA	GAACAGCATG	CAAGCTTAGS	TTTGTTCAGA	AGAAATGCRA	TTTGACCTGT	480
GTGGACATAT	GGAATGTCAT	AGAAGCATTG	CGGAAAAATG	CTCTGAACAA	CCTGGACCCA	540
AACACTGAAC	TCAACGTGTC	CCGCTTAGAG	GCTGTGCTCT	CCACTATTTT	TTACCACTCT	600
AACAAACGGA	TGCCAACCCAC	TCACCAAAATC	CATGTGGAGC	AGTCCATCAG	CCTCCTCCTT	660
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AAAAATGGCTT	TAGCCACATT	GTGTGAGGAG	AAGATCATGG	ACAAATTAAG	ATATATTTTC	780
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CTTATGTGAG	ATCCTCCCCC	GCAGTGCTGT	GTCTGGTTGC	CTCTTCTGCA	TCGACTAGCA	1020
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TGCGTCTAGA	TGGATAACAT	GACTTCTTCT	ACCCATAAAT	ATTCTATATA	TACTTTGAGC	1500
TGTTCTGTTT	CCTCCAGGTT	GCAATGGTAC	CAITAAACCA	AAATATGATT	ATTTCCTTTT	1560
TTTCCCATTT	TCAGTCAATT	TGGAATGTTT	TCTGTGAACC	ACAGTTGGGT	TGTTTAAAGC	1620
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Seq ID NO: 256 Protein sequence

Protein Accession #: AAC50424.1

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ALRENALNNL	DPNTEINLVS	LEAVLSTIFY	QLNKRMPTTH	QIHVEQSISL	LNFLFLAALD	120
PEGHGKISVF	AVKMLALATL	GGKIMDKLRY	IFSMISDSSG	VMVYGRYDQF	LREVLKLFTA	180
VFEGPSFGYT	EQSARSCFSQ	QKKVTLNGLF	DTLMSDPPPO	CLVNLPLLHR	LANVENVFHP	240
VECSYCHSES	MMGFYRRCQQ	CHNYQLCQDC	FWRGHAGGSH	SNQHQMKET	SWKSPAKKLT	300
NALSKSLSCA	SSREPLHPMF	PDQPEKPLNL	AHIVDTWPPR	PVTSMNDTLF	SHSVPSGSGP	360
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Seq ID NO: 257 DNA sequence

Nucleic Acid Accession #: NM_004172.1

Coding sequence: 179..1807

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GACTAAAGAC	AATGGAGAAG	AGCCCAAGAT	GGGGGCGAGG	ATGGAGAGAT	TCCAGCAGGG	240
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TAAAGTTTAC	CTGTTTGGGA	ATGCTTTTGT	GCTGCTCACA	GTACCCGCTG	TCAATGTGGG	360
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CTCCTTTCTT	GGGGAACCTC	TGATGAGGAT	GTTACAGATG	CTGGTCTTAC	CACATTATCAT	480
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TGTGGAGATG	GAAGACATGG	GTGTGATTGG	GGGGCAGCTT	GCCATGTACA	CCGTGACTGT	1140
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Seq ID NO: 258 Protein sequence
 Protein Accession #: NP_004163.1

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 NLVEACFKQF KTYEERSEK VPIQANETLV GAVINNVSEA METLITRITRE LVPVPGSVNG 240
 VNALGLVFS MCFGFVIGNM KEQGQALREF FDSLNEAIMR LVAVIMWYAP VGILFLIAGK 300
 IVEMEDMGVI GQQLAMTYVT VIVGLLIHAV IVLPLLYPLV TRKNPWFVIG GLIQLALITAL 360
 GTSSSSATLP ITFKCLEENN GVDRKRVTRFV LPVGATINMD GTALYEALAA IFIAQVMNFE 420
 LNFQGIITIS ITATAASGA AGIPQAGLVT MVIIVTSVGL PTDDITLIIA VDWFLDRLRT 480
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Seq ID NO: 259 DNA sequence
 Nucleic Acid Accession #: NM_021948.1
 Coding sequence: 48..2783

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5	CACTCTCCCA	GGGCGCAGCA	AGGGCAGTCC	TGCAGCCTGG	TGCATCACCA	CTTCTGTATG	1620
	GAGAGTCAGA	AGCTTCCAGG	CCTCCAAGGG	TCCATGGACC	ACCTACTGAG	ACTCTGCCCA	1680
	CTCCACAGCA	GAGGAACCTA	GCATCCCCAT	CACCTTCCAC	TCTGGTTGAG	GCAAGAGAGG	1740
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	CAGGAAGCTC	CGAGGGTGCC	CCTTCCCTGC	TTCCAGCCAC	ACGGGCCCTT	GAGGGTACCA	1860
10	GGGAGCTGGA	GGCCCCCTCT	GAAGATAATT	CTGGAAGAAC	TGCCCCAGCA	GGGACCTCAG	1920
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20	CCTACACCTG	CAAGATGGGG	CTGGTGTCTT	GTGGGCGGCC	ACCGGAGCTG	CCCTTGGCTC	2520
	AAGTGTTCGG	CCGCCACAGG	CTGCGCTATG	AGGTGGACAC	TGTGCTTCGC	TACCGGTGCC	2580
	GGGAAGGACT	GGCCAGGACC	AATCTGCCCG	TGATCCGATG	CCAAGAGAAC	GGTGGTTGGG	2640
	AGGCCCCCA	GATCTCCTGT	GTGCCAGAA	GACCTGCCCG	AGCTCTGCAC	CCAGAGGAGG	2700
	ACCCAGAAGG	ACGTGAGGGG	AGGCTACTGG	GACCTGGGAA	GGCGCTGTTG	ATCCCCCCTT	2760
25	CCAGCCCCAT	GCCAGGTCCC	TAGGGGGCAA	GGCCTTGAAC	ACTGCCGGCC	ACAGCACTGC	2820
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Seq ID NO: 260 Protein sequence
Protein Accession #: NP_068767.1

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35	SLALSBLRPN	DSGIYRCVQ	HGIDSSDAV	EVKVKGVVFL	YREGSARYAF	SFSGAQERACA	180
	RIGAHTATPE	QLYAAYLGGY	EQCDAGWLS	QTVRYPIQTP	REACYGDMG	FPGVNRNYGVV	240
	DPDDLVDVYC	YAEIDLNGELF	LGDPPFKLTL	EEARAYCQER	GAEIATTGQL	YAAWDGGLDH	300
	CSFGWLADGS	VRYPIVTPSQ	RCGGGLPGVK	TLFLFPNQTG	FPNKHRSFNV	YCFRDSAQPS	360
	AIPEASNPA	NPASDGLLEAI	VTVTLELEL	QLPQEATESE	SRGAIYSIPI	MEDGGGSSST	420
40	PEDPABAPRT	LLEFETQSMV	PPTGFSEEEG	KALEEEEEKYE	DEEEKEEEEEE	EEVEDEEALW	480
	ANPSELSSPG	PEASLPTEPA	AQEEESLSQAP	ARAVLQPGAS	PLPDGESEAS	RPRRVHGPPT	540
	ETLPTPRENR	LASPSPTSLV	EAREVGEATG	GPELSGVFRG	ESEETGSSEG	APSLLPATRA	600
	PEGTRELEAP	SEDNISRTAP	AGTSVQAQPV	LPDTSASRGG	VAVVPASGDC	VPSPCNNGST	660
	CLEEBEGVRC	LCLFGYGGDL	CDVGLRFENP	GWDAPQGACY	KHFSTRRSWE	EAEQTQCRMYG	720
45	AHLASISTPE	EQDFINRNYR	EYQWIGLND	TIEGDFLWSD	GVPLLYENWN	PQPPDYSFSL	780
	GENCVVMVNH	DQQWSDVPC	NYHLSYTKRM	GLVSCGPPE	LPLAQVFRGP	RLRYEVDIVL	840
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65	GGCTGCGCT	CTCAGCTCAG	CCATCATGTC	AGCCCTCGGG	CATCTACAGG	CTGCCTTTGA	600
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70	CCGCCGCCAG	GGTGGCGGCG	TGGCCTCGGT	GGGACAGCTG	CACTGGGCTT	GGCATGAGGG	900
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75	GTGACGAGAG	GGGCCCCCAG	TTAGAGAACT	GGAGCCCAAC	CTGGAGGAGG	AAGAGGTGGT	1200
	CACCCCTGAC	TTCAGGAGC	CTCTGGTGTG	CAGTGGGGAA	GAAGAAACCC	TGATTTTGGA	1260
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	AGGCACTGCA	GCAAGTTTCA	ACACGGAGGT	GGCCCCAACT	GACCTATGCT	CTAGGAGAGG	1440
80	GGGGCGCTTC	AAAGGGTTGA	ATGGGGCGCTA	CTTCAGCAGC	CAGGAACCGG	AGCCGGGGCT	1500
	GCAAGGGGGG	ATGAGGGCCA	GCGCCAGGCC	CCCCACCTCA	GAGGCTGCAG	TGAACCAAT	1560
	GGAGCCTCCG	TGGCCATGG	CAGTCACAGA	GATGTTGGGC	AGTGGCCAGA	GCGCGAGCCC	1620
	CTGGGCTGAT	CTGACCAATG	AGGTGGATAT	GCCTGGAGCT	GGTTCGTCTG	GTGGCAAGAG	1680
	CTCCACAGAG	CCCTGGCTGT	GGCCCCCTAC	CATGGTCCCA	CCGAGCATCT	CAGGCCACAG	1740
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Seq ID NO: 262 Protein sequence

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5 CGGTGGACAC TTGAGGCTGA GGATGGGAGT TGACATGAGC AGGGAGAGGG AGGTGCGCGC 3660
 TGCTTATCTG TGATTGTTGC TCACCTGAGT GTGGCTGATT GTGTACATCC AGCAGTTACA 3720
 ATTTTAAAA ATTACTTTT TACATTTATT TTATATTTTT CTCACCCCA GTAATTTTCT 3780
 TCCAAAGAGG TTCACATGTA ATAAGTAGAA ATTCTGTATA GGAAAAAGC ATTAAAAATA 3840
 CTATTATAAC TGCTTCATT GCTGGGAACC ATTAAGAATA ATATAAATA GCTTTTTCCA 3900
 GAAGGATCCT TTTGTAGCAG TGTATTGAA TGTAAACCCC AGCAAAATAT GGCTATATAT 3960
 TAGGGGAGCC AGTTTGGAGC AGAGGCCTGA AGGTCCCTGC TATGCAGCCG TGGCCACAGC 4020
 TCCAGCCCCA AGCAGCTGTG AGCATCCACA CCTTTGATGG CAATGCAGAT TGGTAGCAGG 4080
 10 TTCCATAGGC GTACAAAAACA GTATTAAAGC TCAGTGTITT GCATATTGTT AGCATTTACA 4140
 AATATTTTGT CTTTAGTAGT AGGAAAGTAA GGATGGGCAA AGAAGCGATC AAAATAGCTA 4200
 TTGCTACAA ATTTTCGAAA ACAAAGTTGG GGCTGTATT CTTTAAAAAG ATAAGCCTCT 4260
 AAAATGCTT GSCAAAAAA ATATAGTGTT AAAATAGGCC AGTGATATTA ATGAGAAAAAT 4320
 GAAAGTAGT ATCAGGAATA AAGTGATATT GCATAGGAGT ATTGTATTTT TATGAATTTT 4380
 15 ATGCCAGTTG TTTACATGTA CTATATATGT TAAATTAATA AAAATCATGA GAAATG

Seq ID NO: 266 Protein sequence
 Protein Accession #: BAA74900.1

20 1 11 21 31 41 51
 | | | | | |
 PLVINTLKRP NLYPEVILAS WYRIYTKIMD LIGIQTKICW TVTRGEGLS P IESCEGLGDP 60
 ACPYVAVIFI INGLMMLFF IYGYLSGSR LGGLVTVLCP FPNHGECTRV MWTPLRESF 120
 SYFFVLQML LVTHILRAIK LYRGLIALC ISNVFFMLPW QPAQFVLLTQ IASLFAVYV 180
 25 GYIDICKLRK IYIYHIMSLA LCPVLMFGNS MLLTSYASS LVIWGLILAM KPHPLKINVS 240
 ELSLWVQGC FWLFGTVILK YLTSKIFGIA DDAHIGNLLT SKFFSYKDFD TLLYTCAAEF 300
 DFMKSTPLR YTKTLLLPV LVVFAIVRK IISDMWGVLA KQOTHVRKQ PDHGLVYHA 360
 LQLLAYTALG ILIMRLKLF TPMLCVMSL ICSRQLFGWL FCKVHPGAIV FAILAAMSIQ 420
 GSNALQTQWN IVGFSNLPQ EELIEWIKYS TKPDVAFAGA MPTMASVKLS ALRPVNHHPH 480
 YEDAGLRART KIVYSYSRK AAEVVKRELI KLKVNYYILE ESWCVRRSKP GCSMPBIWV 540
 30 EDPANAGKTP LCNLLVKDSK PHFTTVFQNS VYKLVLEVKE

Seq ID NO: 267 DNA sequence
 Nucleic Acid Accession #: U26744.1
 Coding sequence: 59..1600

35 1 11 21 31 41 51
 | | | | | |
 CTTCAAGAA TATAGATGGT TTTGAAAAGT TCATGCTGTC CCTTCATTGA ATTTTAGAAT 60
 GATTGAAGAT AGTGGGAAAA GAGGAATAC CATGGCAGAA AGAAGACAGC TGTTTGACAG 120
 40 GATGAGGGCT CAAGATCTGG ATCGCATCCG ACTCTCCACC TACAGAACAG CATGCAAGCT 180
 TAGGTTTGTG CAGAAGAAAT GCAATTGCA CCGTGGGAC ATATGGAATG TCATAGAAGC 240
 ATTGCGGAA AATGCTCTGA ACAACCTGGA CCCAAACACT GAACTCAACG TGTCCCGCTT 300
 AGAGGCTGTG CTCTCCACTA TTTTTCACCA GCTCAACAAA CGGATGCCAA CCACTCACCA 360
 AATCCATGTG AGCAGTCCA TCAGCCTCCT CCTTAACTTC CTGCTTGACG CGTTTGATCC 420
 45 GGAAGGCCAT GGTAAAAATT CAGTATTGTC TGTCAAAATG GCTTTAGCCA CATGTGTGG 480
 AGGGAAGATC GTGACAAAT TAAGATATAT TTTCTCAATG ATTTCTGACT CCAGTGGGGT 540
 GATGTTTTAT GGACGATATG ACCAATTCCT TCGGGAAGTT CTCAAACTAC CCACGGAAGT 600
 TTTGGAGGGT CCTTCATTG GTTACACAGA ACAGTCAGCC AGATCCTGTT TCTCCCAACA 660
 50 GAAAAAAGT AGCTTAAAT GTTCTTGGA CAGCCTTATG TCAGATCCTC CCGCGCAGTG 720
 TCTGGTCTGG TTGCTCTTC TGATCGACT AGCAAAATG GAAATGTCT TCCATCCGGT 780
 TGAGTGTCC TACTGCCACA GTGAGAGTAT GATGGGATT CGCTACCGAT GCCAACAGTG 840
 TCACAATTAC CAGCTCTGTC AGGACTGCTT CTGAGGGGA CATGCCGGTG GTTCTCATAG 900
 CAACCCAGC CAAATGAAG AGTACACGTC ATGGAATCA CCTGCTAAGA AGCTGACTAA 960
 55 TGCATTAGC AAGTCCCTGA GCTGTGCTTC CAGCCGTGAA CCTTTGACCC CCATGTTCCC 1020
 AGATCAGCCT GAGAGCCAC TCAACTTGGC TCACATCGTT GATACTTGGC CTCCAGACC 1080
 TGTAAACAGC ATGAACGACA CCCTGTTCTC CCACTCTGTT CCTCTCTCAG GAAGTCTTTT 1140
 TATTACCAG AGCATGCTTG AGAGTTCAAA CCGGCTTGAT GAAGAACACA GGCTAATTGC 1200
 CAGGTATGCG GCAAGGCTGG CAGCAGATC CTCTTCGTCT CAGCCACCTC AGCAGAGAAG 1260
 60 TGCTCCTGAC ATCTCTTCA CCATCGATGC GAATAAGCAG CAAAGGCAGC TGATTGCTGA 1320
 GCTAGAAAC AAGAACAGG AATCTTACA GGAGATCCAG AGACTTCGGC TAGAGCATGA 1380
 ACAAGCTTCT CAGCCACGCG CAGAGAAGGC ACAGCAAAAC CCCACCTGCG TGGCAGAACT 1440
 CCGGCTCTCT AGACAGCGCA AAGATGAGCT GGAACAGAGA ATGTCGTGCTC TCCAGGAGAG 1500
 CGGAGAGAG CTAATGGTCC AGTTGGAGGG TCTCATGAAG CTACTAAAGG AAGAAGAACT 1560
 65 GAAGCAGGGA GTAAGTTATG TCCCTACTG CAGGCTTAA CTAACAGTGG AGGGGCTGCG 1620
 CGAAGCTGGG TTTTCTCATT GCTTTGCTC TAATGTATG TCATGCTTCA GTTTGGAAAG 1680
 AGAAAAAGT CATACTAATT TGCTTCTTTT TCAATGATG GCTTGAATTG AGATATATAA 1740
 ATTTAGCATT TTTTATAACT ATCACTACTA TCCACATCA AAGAAGAACT ATGACATCTT 1800
 TTAGAAAAGG GAACGAATTG TCATTATTG GAAACATTTT AGATCCCCAG AGGTATAAGT 1860
 70 TTCAAACAG TCTTAGCTTT TCAAGTTGTT GATCAGACCC TTCTCTTAA AGAGAGATAC 1920
 CACAGTCACT AGAGATACCC TGAGGTTTCA GTCATCCCAA AACCACAGC ACTCAGAAAG 1980
 TAACCTCTAC ACCCACTAC ACTGTGAGTA TTCAGTTCGG TTTCAATTTA CTGAAAACT 2040
 GTGAAACCTC TTTTATAAAA AATCAGGCAA TTAATCCCT TTTTCATACA CAATTATTGA 2100
 GCCTTGTTC CCATGGCTCA CCAAAATGTG CTCAATTTTG TGAGAGAAAG ACTGTACTCC 2160
 75 ATAACTGACT ATTCAGTCC CATCTTTTGG GCTCTTCCCC AAAGCAGAAAT CCTTACTGTT 2220
 GGTGACAGT AATCTCTTTT TAAAAAGTAA CTCTCAGCTT TTTCTTAGC ACCAGAGCCT 2280
 TTCGGCTCCG GAGACGAGA GGGTCATTAC ATACTTTTTT TTTTCTGCG AAATAGGGGC 2340
 ATTGTGACTT TATAGCTTAA ACTGGAGCTG TCTGAACCTG TGGTCAGGCT CAAGAGCCAG 2400
 CAGGGGGAGC AGCAAACTC

Seq ID NO: 268 Protein sequence
 Protein Accession #: AAC50426.1

1 11 21 31 41 51
 | | | | | |

5 MIEDSGKRG N TMAERROLFA EMRAQDLDR LRLSTYRTACK LRFVQKKCNL HLVDIWNVIE 60
 ALRENALNNL DPNTELNVSF LEAVLSTIFY QLNKRMPTTH QIHVEQSISL LLNFLLAAPD 120
 PEGHGKISVF AVKMALATLC GKGIMDKLRY IFSMISDSSG VMVYGRYDQF LREVLKLPTE 180
 VLEGPSTFYT EQSARSCPSQ QKRVTLNGFL DTLMSDPPPO CLVNLPLLR LANVENVFHP 240
 VECSTCHSES MMGFYRCQQ CHNYQLCQDC FWRGHAGGSH SNQHQMKET SWKSPAKKLT 300
 NALSKSLSCA SSREPLHPMF PDQPEKPLNL AHIVDTWPPR PVTSMNDTLF SHSVSSSGSP 360
 FITRSMLESS NRDDEHRLI ARYAARLAAE SSSSQPPQOR SAPDISFTID ANKQORQLIA 420
 ELENKNREIL QEIQRLRLEH EQASQPTPEK AQQNPITLAE LRLRLQRKDE LEQRMSALQE 480
 SRRELNVQLE GLMKLLKEEE LKQGVSYVPY CRS

Seq ID NO: 269 DNA sequence
 Nucleic Acid Accession #: NM_001276.1
 Coding sequence: 127..1278

15 1 11 21 31 41 51
 AGTGGAGTGG GACAGGTATA TAAAGGAAGT ACAGGGCCCTG GGAAGAGGCG CCTGTCTAGG 60
 TAGCTGGCAC CAGGAGCCGT GGGCAAGGGA AGAGGCCACA CCCTGCCCTG CTCTGCTGCA 120
 GGCAGAAATGG GTGTGAAGGC GTCTCAAAACA GGCTTTGTGG TCCTGGTGCT GCTCCAGTGC 180
 20 TGCTCTGCAT ACAAACTGGT CTGCTACTAC ACCAGCTGGT CCCAGTACCG GGAAGGCGAT 240
 GGGAGCTGCT TCCAGATGC CCTTGACCGC TTCCTCTGTA CCCACATCAT CTACAGCTTT 300
 GCCAATATAA GCAACCATCA CATGACACCC TGGGAGTGGG ATGATGTGAC GCTCTACGGC 360
 ATGCTCAACA CACTCAAGAA CAGGAACCCC AACCTGAAGA CTCTCTGTCT TGTCGGAGGA 420
 25 TGGAACTTTG GGTCTCAAAG ATTTTCCAAG ATAGCTCCCA ACACCCAGAG TCGCCGGACT 480
 TTCAATCAAG CAGTACCGCC ATTCCTGCGC ACCCATGGCT TTGATGGGCT GGACCTTGCC 540
 TGGCTCTACC CTGGACGGAG AGACAAACAG CATTTTACCA CCCTAATCAA GGAATGAAG 600
 GCCGAATTTA TAAAGGAAGC CCAGCCAGGG AAAAGCAGC TCCTGCTCAG CGCAGCACTG 660
 TCTGCGGGGA AGGTCAACAT TGACAGCAGC TATGACATTG CCAAGATATC CCAACACCTG 720
 GATTTCATTA GCATCATGAC CTACGATTTT CATGGAGCCT GCGCTGGGAC CACAGGCCAT 780
 30 CACAGTCCCC TGTTCGGAGT TCAGGAGGAT GCAAGTCTCT ACAGATTGAG CAACACTGAC 840
 TATGCTGTGG GGTACATGTT GAGGCTGGGG GCTCCTGCCA GTAAGCTGGT GATGGGCATC 900
 CCCACCTTCG GGAGGAGCTT CACTCTGGCT TCTTCTGAGA CTGGTGTGG AGCCCCAATC 960
 TCAGGACCGG GAATTCAGG CCGGTTCAAC AAGGAGGAGC GGACCTTTCG CTACTATGAG 1020
 35 ATCTGTGACT TCCTCCGCGG AGCCACAGTC CATAGAACCC TCGGCCAGCA GGTCCCCTAT 1080
 GCCACCAAGG GCAACCAAGT GGTAGGATAC GACGACCAAG AAAGCGTCAA AAGCAAGGTG 1140
 CAGTACCTGA AGGATAGCCA GCTGGCAGGC GCCATGGTAT GGCCTTGA CCTGGATGAC 1200
 TTCCAGGGCT CCTTCTGCGG CCAGGATCTG CGCTTCCCTC TCACCAATGC CATCAAGGAT 1260
 GCATCTGCTG CAACGTAGCC CTCTGTTCTG CACACAGCAC GGGGCCCAAG GATGCCCGGT 1320
 40 CCCCCTCTGG TCCTCAGCTGG CCGGGAGCCT GATCACTGAC CCTGCTGAGT CCGAGGCTGA 1380
 GCCTCACTCT CCCTCCCTTG GGGCCTATGC AGAGGTCCAC AACACACAGA TTTGAGCTCA 1440
 GCCCTGGTGG GCAGAGAGGT AGGATGGGG CTGTGGGGAT AGTGAGGCAT CGCAATGTAA 1500
 GACTCGGGAT TAGTACACAC TTGTTGATGA TTAATGGAAA TGTTTACAGA TCCCCAAGCC 1560
 TGGCAAGGGA ATTCTTCAA CTCCCTGCCC CCTAGCCCTC CTATCAAGG GACACCATTT 1620
 45 TGGCAAGCTC TATCAACCAAG GAGCCAAACA TCCTACAAGA CACAGTGACC ATACTAATTA 1680
 TACCCCTGCG AAAGCCAGCT TGAACCTTC ACTTAGGAAC GTAATCGTGT CCCCTATCCT 1740
 ACTTCCCTTT CCTAATTTCA CAGCTGCTCA ATAAAGTACA AGAGTTTAA AGTGTGTTGG 1800
 CGCTTTGCTT TGGTCTATCT TTGAGCGGCC ACTAGACCCA CTGGACTCAC CTCGCCCATC 1860
 50 TCTTCTGGGT TCCTTCTCTT GAGCCTTGGG ACCCTTGAGC TTGCAGAGAT GAAGGCCGCC 1920
 ATGTT

Seq ID NO: 270 Protein sequence
 Protein Accession #: NP_001267.1

55 1 11 21 31 41 51
 MGVKASQTGF VVLVLLQCCS AYKLVCCYTS WSQYREGDGS CFPDALDRFL CTHIIYSPAN 60
 ISNDHIDTWE WNDVTLYGML NTLKNRNPNI KTLISVGGWN FGSQRFSKIA SNTQSRRTPI 120
 KSVPPFLRTH GFDGLDLAWL YPGRRDQHF TTKIKEMKAE PIKEAQPGRK QLLLSAALSA 180
 GKVTIDSSYD IAKISQHLDF ISIMTYDFHG AWRGTTGHHS PLFRGQEDAS PDRFSNTDYA 240
 60 VGYMLRLGAP ASKLVMGIPT FGRSFTLASS ETGVGAPISG PGIPGRFTKE AGTLAYYEIC 300
 DFLRGATVER TLGQVVPYAT KGNQWVGYYD QESVSKVQY LKDRQLAGAM VWALDLDDFQ 360
 GSFCCGDLRF PLTNALKDAL AAT

Seq ID NO: 271 DNA sequence
 Nucleic Acid Accession #: NM_006474.1
 Coding sequence: 181..669

70 1 11 21 31 41 51
 GCTGCCTAGG GTCTGGAAAG CTCGGGCACC CTCCTCTCC GGGGCTCCTG CTCCCACCCC 60
 TCGGCCCCCG CCACCGTCGC GCTCCTCCAG CCTGGGCTG TGGCGCGGCT GCTTTTAATT 120
 TTCCCCCAGC TCAGAACTCT GTGCTCGGC CCCAGGAGA GCAACAATC AACGGGAACG 180
 ATGTGGAAGG TGTCAGCTCT GCTCTTCTGT TTGGGAAGCG CGTCGCTCTG GGTCTTGSCA 240
 75 GAAGGAGCCA GCACAGGCCA GCCAGAAGAT GACACTGAGA CTACAGGTTT GGAAGGCGGC 300
 GTTGCCATGC CAGGTGCCGA AGATGATGTG GTGACTCCAG GAACCAAGCA AGACCGCTAT 360
 AAGTCTGGCT TGACAATCT GGTGGCAACA AGTGTCAACA GTGTAACAGG CATTGCTATC 420
 GAGGATCTGC CAATTCAGA AAGCACAGTC CACGCGCAAG AACCAAGTCC AAGCGCCACA 480
 GCCTCAAAAG TGGCCACCA TCACTCCACG GAGAAATGG ATGGAGACAC ACAGACAACA 540
 80 GTTGAGAAG ATGGTTTGTG AACAGTGACC CTGGTTGGAA TCATAGTTGG GGTCTTACTA 600
 GCCATCGGTT TCATTGGTGG AATCATGTT GTGGTTATGC GAAAAATGTC GGAAGGTATC 660
 TCGCCCTAAA GAGCTGAAG GTTACGCCCT GCTTGCCAAC GTGCTTTAAA AAAAGACCGT 720
 TTCTGACTCT GTGGCCCTGT CCTGAGCTC GTGGGAGAA GATGACCTG GGAACATTG 780
 CGGCCCCATT CAGATCCAC GGTGACTTTC CGTTTGCCAA ATTAACGAG GAAAGACCTT 840

TCACCAGATT TGGTTCTTAA ACTTT

Seq ID NO: 272 Protein sequence
 Protein Accession #: NP_006465.1

5
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 1 11 21 31 41 51
 | | | | |
 MMKVSALLFV LGSASLWVLA EGASTGQPED DTETTTGLEGG VAMPGAEDDV VTPGTSEDY 60
 KSLGLTLVAT SVNSVTGIRI EDLPTSESTV HAQEQSPSAT ASNVATSHST EKVDGDTQTT 120
 VERDGLSTVT LVGIIVGVLL AIGFIGGIIV VVMKMSGRY SP

Seq ID NO: 273 DNA sequence
 Nucleic Acid Accession #: CAT cluster

15
 20
 25
 1 11 21 31 41 51
 | | | | |
 GCGGCCGCCA GCTTGCAAAG CCGAAGTCTG GCCCGCTCTT TCGACTCGCT GCGCCACGTC 60
 CCCGGGGGTG CCGAGCCGCG GGGGGGTGAG GTGGCTGCGC CGGCGGCGCG GCTAGGAGGT 120
 CGGGGCACTG GGGGCGCGGG AGGGGACGTG GCAGGCCCGC CGGGGGCCAC GCGGATCCCA 180
 GGGGCCAGGA AGGTCCCGCT GCGGGCACGC AATCTGCTCT CTCTCTTCTT CACGAGCCCG 240
 TCCCGGGCAG GCGGCGGCGG GTGTGGCCCG TCGGGGCGCG ACGTGAGCTT GGGCGACCTG 300
 GAGAAGGGCG CGGAGGCCGT GGAGTTCTTT GAGCTGTCTG GCGCCGACTA CGGCGCCGCG 360
 ACGGAGGCGG CAGTCTTGCT TGCCGCGGAG CCTCTGACGC TGTTCGCCCG CGGAGCCTCC 420
 GTACTGCGGG GACCCCGCGA GCTGGAGCCC GGCCTCTTTG AGCGCGCGCC GGCAGTGGTG 480
 GGAACCTAC TGTACCCCGA GCCCTGGAGC GTCCCGGGCT GCTCCCGGAC CAAAAGAGAG 540
 CCCTTGACTG CCCTCCGCGG CGGGTTGACC TTGAACGAGC CCTTGAGCCC CTGTACCCC 600
 GCGCTGCGA ATTTCTCCCG GCGGGGAGGA CGGGCGGGCG CATTGGGCTT CTTTCGCCCC 660
 CTCTTTCCA GACTGCGCTT TGC

30
 Seq ID NO: 274 DNA sequence
 Nucleic Acid Accession #: Eos sequence

35
 40
 1 11 21 31 41 51
 | | | | |
 CAAAGAGGCC GGGCTCCAGC TCCGGGGGTC CCCGCAGTAC GGAGGCTCCG GCGGGGAACA 60
 CGTCGAGAGG CTCGGCGGCA AGCAAGACTG CCGCTCCGT GCGGCGCGCG TAGTCGGGCC 120
 CCAGCAGCTC AAAGAACTCC ACGGCCTCCG CGCCCTTCTC CAGGTCGCCC AAGCTCACGT 180
 CCGCCCCGA CCGGCCACAC CCGCCGCGCG CTGCCCGGGA CGGCTCCGTG AAGAAGGACG 240
 GAGGCAGATT GCGTGCCCGC AGCGGGACCT TCCTGGCCCC TGGGATCGCC GTGGCCCCCG 300
 CGGGGCTGCG CAGTCCCTCT CCGCGGCCCC CAGTGCCCGC ACCTCCTAGC CCGGCGCGCG 360
 GCGCAGCCAC CTCACCCCCC GCGGCTCGCG CACCCCGGGG GACGTGGGCG AGCGAGTCGA 420
 AGAGCGCGGC CAGACTTCGG CTTTGCAAGC TGGCGGCCCG

45
 Seq ID NO: 275 DNA sequence
 Nucleic Acid Accession #: NM_001118.1
 Coding sequence: 74..1651

50
 55
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 75
 80
 1 11 21 31 41 51
 | | | | |
 AGCCCCAGAGA CACATTGGGG CTGACCTGCC GCTGCTGTCA GTGGGAGGCC AGTGGTGCTG 60
 GCGAAGAAGT GTCATGGCTG GTGTCGTGCA CGTTTCCCTG GCTGCTCACT GCGGGGCTCG 120
 TCGTGGGGCG CCGGGCAGAC TCCGCAAAAG ACGGCGAGCC TGCAAGTCCG CGGCCACAGG 180
 ACACATTGGG GCTGACCTGC CGCTGCTGTC AGTGGGAGGC CAGTGTGTCT GGCCAAGAAG 240
 TGTGATGGCT GGTGTGCTGC ACGTTTCCCT GCGTGTCTCT CTCTGCTGCG CTATGGCCCC 300
 TGCCATGCAT TCTGACTGCA TCTTCAAGAA GGAGCAAGCC ATGTGCTGGG AGAAGATCCA 360
 GAGGGCCAAT GAGCTGATGG GCTTCAATGA TTCCTCTCCA GCGTGTCTCG GATGTGGGA 420
 CAACATCACG TGTGGAAGC CCGCCCATGT GGGTGAGATG GTCCCTGGTCA GCTGCCCTGA 480
 GCTCTTCCGA ATCTTCAACC CAGACCAAGT CTGGGAGACC GAAACCATTT GAGAGTCTGA 540
 TTTTGGTGAC AGTAACTCCT TAGATCTCTC AGACATGGGA GTGGTGAGCC GGAATGTCAC 600
 GGAGGATGGC TGGTCGGAAC CCTTCCCTCA TTACTTTGAT GCGTGTGGGT TTGATGAATA 660
 TGAATCTGAG ACTGGGGACC AGGATTATTA CTACCTGTCA GTGAAGGCCC TCTACAGCGT 720
 TGGCTACAGC ACATCCCTCG TCACCTCAC CACTGCCATG GTCATCTCTT GTGCGTTCOG 780
 GAAGCTGCAC TGCACACGCA ACTTCATCCA CATGAACCTG TTTGTGTGCT TCATGCTGAG 840
 GCGATCTCC GTCTTCATCA AAGACTGGAT TCTGTATGCG GAGCAGGACA GCAACCACTG 900
 CTTTCTCTCC ACTGTGGAAT GTAAGGCGGT CATGGTTTTC TTCCACTACT GTGTGTGTCT 960
 CAACTACTTC TGGCTGTTC TCGAGGCGCT GTACCTCTTC ACTCTGCTGG TGGAGACCTT 1020
 CTTCCCTGAA AGGAGATACT TCTACTGGTA CACCATCATT GGCTGGGGGA CCCCACCTGT 1080
 GTGTGTGACA GTGTGGGCTA CGCTGAGACT CTACTTTGAT GACACAGGCT GCTGGGATAT 1140
 GAATGACAGC ACAGCTCTGT GGTGGGTGAT CAAAGGCCCT GTGGTTGGCT CTATCATGGT 1200
 TAACCTTGTG CTTTATTATG GCATTATCGT CATCCTTGTG CAGAACTTTC AGTCTCCAGA 1260
 CATGGGAGGC AATGAGTCCA GCATCTACTT GCGACTGGCC CGGTCCACCC TGCTGCTCAT 1320
 CCGACTATTG GGAATCCACT ACACAGTATT TGCCTTCTCC CCAGAGAATG TCAGCAAAAG 1380
 GGAAGAGCTC GTGTTTGAGC TGGGGCTGGG CTCCTTCCAG GGCTTTGTGG TGGCTGTTCT 1440
 CTACTGTTT CTGAATGGTG AGGTACAAGC GGAGATCAAG CGAAAATGGC GAAGCTGGAA 1500
 GGTGAACCGT TACTTGGCTG TGGACTTCAA GCACCGACAC CCGTCTCTGG CCAGCAGTGG 1560
 GGTGAATGGG GGCACCCAGC TCTCCATCCT GAGCAAGAGC AGCTCCCAAA TCCGATGTC 1620
 TGGCTCCCTT GCTGACAAAT TGGCCACTTG AGCCATGCTC CCCT

Seq ID NO: 276 Protein sequence
 Protein Accession #: NP_001109.1

1 11 21 31 41 51
 | | | | |
 MAGVVHVSIA AHCACPWGR GRLRKGRAAC KSAAQRHIGA DLPLLSVGQK WCVPRSVMAG 60

5 VVHVSALALL LLPMAPMHS DCIFKKEQAM CLEKIQRANE LMGFNDSSPG CPGMWDNITC 120
 WKPARVGMV LVSCPELPRI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW 180
 SEFPFHYFDA CGDFEYSEST GDQDYLLSV KALYTVGYST SLVLTITAMV ILCRFRKLHC 240
 TRNFHIMNLF VSFMLRAISV FIKDWILYAE QDSNHCPIST VECKAVMVFF HVCVVSNYFW 300
 LFIEGLYLFY LLVETFFPER RYFYWYTIIG WGTPTVCVTV WATLRLYFDD TGCDMDNDST 360
 ALWWVIRKPV VGSIMVNFVL FIGIIVLVQ KLQSPDMGNG ESSYLRRLAR STLLLIPLFG 420
 IHYTVFAPSP ENVSRRERLV FELGLGSFQG FVVAVLYCFL NGEVQAEIKR KWSRWKVNRY 480
 FAVDFKRRHP SLASSGVNNG TQLSILSKSS SQIRMSGPLA DNLAT

10 Seq ID NO: 277 DNA sequence
 Nucleic Acid Accession #: NM_004000.1
 Coding sequence: 36..1193

15 1 11 21 31 41 51
 AGAAGAAGCT GGCCAAGGAT ATGGGAGCAA CCACCATGGA CCAGAAGTCT CTCTGGGCAG 60
 GTGTAGTGGT CTGTGCTGCT CTCCAGGGAG GATCTGCCTA CAAACTGGTT TGCTACTTTA 120
 CCAACTGTGC CCAGGACCGG CAGGAACCGA GAAATTCAC CCCTGAGAAT ATTGACCCCT 180
 20 TCCTATGCTC TCATCTCATC TATTCATTGG CCAGCATCGA AAACAACAAG GTTATCATCA 240
 AGGACAAGAG TGAAGTGTAT CTCTACCGA CCATCAACAG TCTCAAAACC AAGAATCCCA 300
 AACTGAAAT TCTCTGTGCC ATTGGAGGGT ACCTGTTTGG TTCCAAAGGG TTCCACCCTA 360
 TGGTGGATT TCTCATATCA CGCTTGAAT TCATTAACTC CATAATCCTG TTTCTGAGGA 420
 ACCATAACTT TGATGGACTG GATGTAAGCT GGATCTACCC AGATCAGAAA GAAACACTC 480
 25 ATTTCACTGT GCTGATTCAT GAGTTAGCAG AAGCCTTTCA GAAGGACTTC ACAAATCCA 540
 CCAAGGAAAG GCTTCTCTTG ACTGCGGGCG TATCTGCAGG GAGGCAAATG ATTGATAACA 600
 GCTATCAAGT TGAGAAACTG GCAAAAGATC TGGATTTCAT CAACCTCTG TCCTTTGACT 660
 TCCATGGGCT TGGGAAAGAG CCCCTTATCA CTGGCCACAA CAGCCCTCTG AGCAAGGGGT 720
 30 GCAGGACAG AGGGCCAAGC TCCTACTACA ATGTGGAATA TGCTGTGGGG TACTGGATC 780
 ATAAGGGAAT GCCATCAGAG AAGGTGGTCA TGGGCATCCC CACATATGGG CACTCCTTCA 840
 CACTGGCCTC TGCAAGAAC ACCGTGGGGG CCCCTGCTTC TGGCCCTGGA GCTGCTGGAC 900
 35 CCATCACAGA GTCTTCAGCG TTCTGCGCCT ATTATGAGAT CTGCCAGTTC CTGAAAGGAG 960
 CCAAGATCAC GCGCCTCCAG GATCAGCAGG TTCCCTACGC AGTCAAGGGG AACCAAGTGG 1020
 TGGGCTATGA TGATGTGAAG AGTATGAGCA CCAAGGTTCA GTTCTTAAAG AATTAAACC 1080
 TGGGAGGAGC CATGATCTGG TCTATTGACA TGGATGACTT CACTGGCAAA TCCTGCAACC 1140
 AGGGCCCTTA CCTCTTGTG CAAGCAGTCA AGAGAAGCCT TGGCTCCTTG TGAAGGATTA 1200
 ACTTACAGAG AAGCAGGCAA GATGACCTTG CTGCGTGGGG CTGCTCTCT CCCAGGAATT 1260
 CTCATGTTGG ATTCCCTCTG CCAGGCTGGC CTTTGGATCT CTCTTCAAG CCTTCTCTGA 1320
 40 CTTCCTCTTA GATCATAGAT TGGACCTGGT TTTGTTTCC TGCAGCTGTT GACTTGTGTC 1380
 CCTGAAGTAC AATAAAAAAA ATTCATTTTG CTCCAGTA

Seq ID NO: 278 Protein sequence
 Protein Accession #: NP_003991.1

45 1 11 21 31 41 51
 MDQKSLWAGV VVLLLLQGGG AYKLVCYFTN WSQDRQEPGK FTPENIDPFL CSHLIYSFAS 60
 IENKVIKID KSEVMYQTI NSLKTNPXL KILLSIGGYL FGSKGFPMV DSSTSRLEFI 120
 NSIILFLRNH NFDGLDVSWI YPDQKENTHF TVLIHELAEA FQKDFTKSTK ERLLLTAGVS 180
 50 AGRMIDNSY QFELKADLD FINLLSDFDH GSWKPLITG HNSPLSKGW DRPGSSSYNV 240
 EYAVGWYIHK GMPSEKVMVG IPTYGHSTFL ASAEVTVGAP ASGPGAAGPI TESSGFLAYY 300
 EICQFLKGAQ ITRLDQQVP YAVKGNQWVG YDDVKSMEK VQFLKNLNLG GAMINSIDMD 360
 DFTGKSCNQ PYPLQAVKR SLGSL

55 Seq ID NO: 279 DNA sequence
 Nucleic Acid Accession #: NM_015166.1
 Coding sequence: 116..1249

60 1 11 21 31 41 51
 TGCTGGAAGT CCCTCACCCA GAGACCAAGT CTCCCAACGG CAGAGCAGCG GGGGAGATAA 60
 AGAACTGGTG ACACGTGGCT GTACATTCAG CACAGCTGTG GTGTCCCAAA GTGCCATGAC 120
 CCAGGAGCCA TTCAGAGAGG AGCTGGCCTA TGACCGGATG CCCACGCTGG AGCGGGGCGG 180
 65 GCAAGACCCC GCCAGCTATG CCCAGACGCG GAAGCOGAGC GACCTGCAGC TGTGGAAGAG 240
 ACTGCCCCCC TGCTTCAGCC ACAAGACGTG GGTCTTCTCT GTGCTGATGG GGAGCTGCCT 300
 CCTGGTGACC TCGGGGTTTT CGCTGTACCT GGGGAACGTG TTCCCGGCTG AGATGGATTA 360
 CTTGGCTGCT GCTGCAGGCT CTTGCATCCC CTGCGCAATT GTGAGCTTCA CGTCTCCAG 420
 GAGGAACGCC AATGTGATTC CCAACTTTCA GATATTGTT GTTCCACGT TGTCTGTGAC 480
 CACTAGTGT TTAATTGGT TTGGATGCAA ACTAGTCTGT AACCCTATCAG CAATAAACAT 540
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Seq ID NO: 2838 DNA sequence
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TTGAGCAGCG AGGCGCTGGT GCGCTGCTG GTGCTGAGC CCAACGACAA CTCGCCCTTC 1680
GTGCTGTACC CGCTGCAGAA CGGCTCCGCG CCTGTGACCG AGCTGGTGCC CCGGGCGGCT 1740
GAGCCGGGCT ACCTGGTGAC CAAGGTGGTG GCGGTGAGC GCGACTCGGG CCAGAACGCC 1800
TGGCTGTGTT ACCAGCTGCT CAAGGCCACG GAGCCCGGCG TGTTCGGCGT GTGGGCGCAC 1860
AATGGCGAAG TGGCAGCCG CAGGCTGCTG AGCGAGCGCG ACGCGGCCAA GCACAGGCTG 1920
GTGGTCTGCT TCAAGACAA TGGCGAGCCT CCGCGCTCGG CCACGCGCAC GCTGCTATGT 1980
CTCTGTGTGG ACGGCTTCTC CCAGCCCTAC CTGCTCTCC CCGAGGCGGC ACCGCCCCAG 2040
GCCAGGCGCG ACTTGTCTAC CGTCTACCTG GTGGTGGCAT TGGCTCTGGT GTCTTCTGCT 2100
TTCTCTTTT CCGTGTCTCT GTTCTGTGCG GTGCGGCTGT GCAGGAGGAG CAGGCGGCGC 2160
TCGGTGGGTC GCTGCTCGGT GCCCGAGGCG CCCTTTCCAG GGCAGATGTT GGACGTGAGC 2220
GGCAGCGGGA CCCTGTCCCA GAGCTACAG TACGAGGTGT GTCTGACTGG AGGCTCCGGG 2280
ACAAATGAGT TCAAGTTCCT GAAGCCAATT ATCCCAACT TCGTTGTCTA AGGTGCAGAG 2340
AGGCTTAGCG AGGCAATCC CAGTTTCAGG AAGAGCTTG AATTCAGTTA A

Seq ID NO: 284 Protein sequence
Protein Accession #: AAD43757.1

1 11 21 31 41 51
MEAGGERFLR QRQVLLLFVF LGGSLAGSES RRYSVABEKE KGFLIANLAK DLGLRVEELA 60

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ARGAQQVSVK NKQHFQLSHQ TGDLLLNEKL DREELCGPTE PCILHFQILL QNPLQFVTNE 120
 LRRIIDVNDHS PVFFFNEMHL KILESTLPGT VIPLGNAEDL DVGRNSIQNY TITPNSHFV 180
 LTRSRDRGRK YPELVLDKAL DREEQPELSL TLTALDGGSP PRSGTAQINI QVLIDINDNAP 240
 EFAQPLYEVA VLENTPVNSV IVTVSASDLT TGSFGTISYA FFHASEEIRK TFLQNPITGD 300
 MQLVKYLNFE AINSYEVIE AKDGGGLSGK STVIVQVVDV NDNPPELTLS SVNSPIFENS 360
 GETVLAVFSV SLDSDGDNDR VMCSIENLPL FFLKPSVENF YTLVSEGLD RETRSEYNIT 420
 ITITDLGTPR LKTKYNITVL VSDVNDNAPA FTQISYTLFV RENNSPALHI GSVSATDRDS 480
 GTNAQVITYSL LPPQDPLPL SSVLSINADN GHLFALRSID YEALQAFEPV VGATDRGSPA 540
 LSSEALVRVL VLDANDNSPF VLYPLQNGSA PCTELVPRAA EPGYLVTKV AVDGDGQNA 600
 WLSYQLKAT EPGLPVNAH NGEVTRARLL SERDAAKHRL VVLVKDNGEP PRSATATLHV 660
 LLVDGFSQFY LPLPEAPAQ AQADLLTVYL VVALASVSSL FLPSVLLFVA VRLCRRSRAA 720
 SVGRCSVPEG PFFGQMDVDS GTGTLSSQSYQ YEVCLTGGSG TNEFKFLKPI IPNFVAQGAE 780
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Seq ID NO: 285 DNA sequence
 Nucleic Acid Accession #: NM_001794.2
 Coding sequence: 15..2765

1 11 21 31 41 51
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 CTGAAGATGA TTACACGGCA TTAATCTCCC AAAATATTCT AGAAGGGGAA AAGCTACTTC 180
 AAGTCAAGTT CAGCAGCTGT GTGGGGACCA AGGGGACACA ATATGAGACC AACAGCATGG 240
 ACTTCAAGT TGGGCGAGAT GGGACAGTCT TCGCCACCCG GGAGCTGCAG GTCCCTCTCCG 300
 AGCAGGTGGC GTTCACTGGT ACTGCATGGG ACAGCCAGAC AGCAGAGAAA TGGGAGCGCG 360
 TGGTGGCGTT GCTGGTGGCC CAGACCTCGT CCGCGCACTC TGGACACAAG CCGCAGAAAG 420
 GAAAGAAAGT CGTGGCTCTG GACCCCTCTC CGCTCCGAA GGACACCCTG CTGCGGTGGC 480
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 TCAAGTGCC CGAAGACTCG CCGCGGCCCT TCCCGCAGCA GCTCGTGAGG ATCCGCTCCG 600
 ACAAGAGCAA TGACATCCCC ATCCGCTACA GCATCACGGG AGTGGGCGCC GACCAAGCCC 660
 CCGTGGAGGT CTTGAGCATT GACTCCATGT CCGGCCCGAT GTACGTCACA AGGCCCATGG 720
 ACCGGGAGGA GCACGCTCTT TACCACCTCC GAGCCACGCG TGTGGACATG AATGGCAACA 780
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 TCGGAGACAA CATCTCAAG TATGACGAGG AAGCGGTGG CGAGGAGGAC CAGGACTACG 2400
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 ACCCCAGGCG ACCCCCTAT GACTCCCTGC TGGTCTTGA CTACGAGGGG AGCGGCTCCA 2640
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Seq ID NO: 286 Protein sequence
 Protein Accession #: NP_001785.2

1 11 21 31 41 51
 MTAGAGVILL LLSLSGALRA HNEDLTRET CKAGFSEDDY TALISQNIIE GEKLLQVKFS 60
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 VAQTSPPHSG HIKPQKGVV ALDPSPPPKD TLLPWPQHQN ANGLRRRKRD WVIPPINPVE 180
 NSRGFFPQQL VRIRSDKND IPIRYSITGV GADQPPMEVF SIDSMSGRMY VTRPMDREEH 240
 ASYHLRAHAV DMNGKVENP IDLYIYVIDM NDNRPFINQ VYNGSVDEGS KPGTYVMTVT 300
 ANDADDSTTA NGMVRYRIVT QTPQSFSQNM FTINSETGDI VTVAAGLDRE KVQQYTVIVQ 360

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ATDMEGNLNY GLSNTATAII TVTDVNDNFP EFTASTFAGE VPENRVETVV ANLTVMDRDO 420
 PHSPNNNAVY RIIISGDPFSGH FSVRTDPVTN EGMVTVVKAV DYELNRAFML TVMVSNOAPL 480
 ASGIQMSFQS TAGVTISIMD INEAPYPFSPN HKLIRLEEGV PPGTVLITFS AVDPDRFMQ 540
 AVRYSLSDP ASWLHINATN QGITTAVALD RESLYTKNNV YEATFLAADN GIPPASGTGT 600
 LQIYLIDIND NAFELLPEKA QICEKPNLNA INITAADADV DFNIGPVYFE LPFVPAAVRK 660
 NWTITRLNGD YQLSLRILY LEAGMYDVPI IVTDSGNPPL SNTSIKVKV CPDDNGDCT 720
 TIGAVAAAGL GTGAIVAILI CILILLTMVL LFMVMKRRR KERHTKQLLI DPEDDVDRNI 780
 LKYDEEGGGE EDQDYDLSQL QQPEAMGHVP SKAPGVRRVD ERPVGAEPQY PIRPMVPHPG 840
 DIGDFINEGL RAADNDPTAP PYDSLVLVDY EGSSTAGSV SSLNSSSSGD QDYDYLNDWG 900
 PRFKKLADMY GGGGED

Seq ID NO: 287 DNA sequence
 Nucleic Acid Accession #: AF152495.1
 Coding sequence: 1..2397

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1 11 21 31 41 51
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 ACGGAGAGTG GCTCCTTTGT GGCCAAATTG TTAAGAGACC TGGGGCTGGA GATAGGAGAA 180
 CTTGCTGTGA GGGGGGCCAG GGTCTGTTTC AAAGGAAAAA AATGCAATT GCAGTTCGAT 240
 AGGCAGACCG GGGATTGTGT GTTAAATGAG AATTTGGACC GGGAGGAGCT GTGCGGCCCC 300
 ACAGAGCCCT GTGTCCTACC TTTCCAGGTG TTAGTAGAAA ATCCCTTGCA GTTTTTCAG 360
 GCGGAGCTAC GGTATAGGGA CGTAAATGAT CATTCCCCAG TTTCTCTAGA CAAAGAAATA 420
 CTTTGAAGAA TTCCAGAAAG TATCACTCCT GGAACACTT TCTTAATAGA ACGTGCCAG 480
 GACTTGGATG TAGGAACCAA CAGTCTCCAA AATTACACAA TCAGTCCCAA TTTCCACTTT 540
 CATCTTAATT TACAAGACAG TCTCGATGGC ATAATATTAC CACAGCTGGT GCTGAACAGA 600
 GCCCTGGATC GCGAGGAGCA GCCTGAGATC AGGTAAACCC TCACAGCGCT AGATGGCGGG 660
 AGTCCACCCA GGTCCGGGAC GGCCTGGTGA CGGATTGAAG TTGTGGACAT CAATGACAAC 720
 GTCCAGAGT TTGCAAGAGT GCTCTATGAG GTGCAGATCC CGGAGGACAG CCCCGTTGGA 780
 TCCAGGTTG CCATCGTCTC TGCCAGGGAT TTAGACATTG GAACTAATGG AGAAATATCT 840
 TATGCATTTT CCAAGCATC TGAAGACATT CGCAAAACGT TTCGATTAG TGCAAAATCG 900
 GGAGAACTGC TTTTAAGACA GAAACTGGAT TTGGAATCCA TCCAGACATA CACAGTAAAT 960
 ATTCAGGCGA CAGATGGTGG GGGCCTATCT GGAACCTGTG TGGTATTGT CCAAGTGATG 1020
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 AACTTGCAGG ACACCCCTCAT TGCTGTATTG AGCGTTTCAG ATCCTGACTC CGGAGACAAC 1140
 GGAAGGATGG TGTGCTCCAT CCAAGATGAT CTTCCTTTTT TCTTGAACCC TTTCTGTGAG 1200
 AACTTTTACA CTCTGGTGAT AAGCAACGGC CTGGACCGGG AGACCGATC CGAATACAAC 1260
 ATCACCATCA CGGTACCGCA CTTCGGGACA CCCAGGCTGA AAACCGAGCA CAACATAACC 1320
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 GACTCGGGCA CCAACGCCCA GGTCAACCTAC TGCTGTCTGC GCGCCACAGG CCCGCACTG 1500
 CCCCTCGCCT CCCCTGGTCT CATCAACGCG GACAACGGCC ACCTGTTCGC TCTCCAGTGG 1560
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 CCGGCGTGA GCAGCGAGGC GCTGGTGGC GTGCTGGTGC TGGACGCCAA CGACAACCTG 1680
 CCCCTCGTGC TGTACCGCT GCAGAACGCG TCCCGGCCCT GCACCGAGCT GGTGCCCGG 1740
 GCGGCCGAGC CGGCTTACTT GGTGACCAAG GTGGTGGCGG TGGACGGCGA CTCGGGCCAG 1800
 AACGCTGGC TGTCTGATCA GCTGCTCAAG GCCACGGAGC CCGGGCTGTT CGGCGTGTGG 1860
 GCGCAATAG GCGGCTGCGC CACCGCCAGG CTGCTGAGGG AGCGCGAGCG TCCCAAGCAG 1920
 AGGCTGGTGG TGTCTGTCAA GGACATGGC GAGCCTCCGC GCTCGGCCAC CGCCACGCTG 1980
 CAGGTGCTCC TGGTGGACGG CTCTCTCCAG CCTACCTGC TGCTCCCGGA GCGGCCACCG 2040
 GCGGAGGCCC AGGCGGACTT GCTCACGCTC TACCTGGTGG TGGCGTTGGC CTCGGTGTCT 2100
 TCGCTCTTCC TCTTCTCGGT GCTCCTGTTC GTGGCGGTGC GGCTGTGAG GAGGAGCAGG 2160
 GCGGCGCTGG TGGTCTGCTG CTGCGTGGCC GAGGGGCCCT TTCCAGGGCA GATGGTGGAC 2220
 GTGAGCGGCA CCGGACCCCT GTCCAGAGC TACCAATAG AGGTGTGTCT GACTGGAGGC 2280
 TCGGAGCAAA ATGAGTTCAA GTTCTGAAAG CCAATTATCC CCAACTTCGT TGCTCAGGCT 2340
 CGAGAGAGGG TTAGCGAGGC AATCCAGT TTCAGGAAGA GCTTTGAATT CACTTAA

Seq ID NO: 288 Protein sequence
 Protein Accession #: AAD43756.1

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1 11 21 31 41 51
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 AELRIRDVND HSPVFLDKBI LLKIPESITP GTPLIERAQ DLDVGTNSLQ NYTISPNEHF 180
 HLNLDQSLDG IILPQLVLRN ALDREEQPEI RLTLTALDGG SPPRSGTALV RIEVDINDN 240
 VPEFAKLLYE VQIPEDSPVG SQVAIVSARD LDIGTNGEIS YAFSQASEDI RKTFRLSAKS 300
 GELLRLQKLD FESIQTYTVN IQATDGGGLS GTCVVFVQVM DLNDNPPPELT MSTLINQIPE 360
 NLQDTLIAVF SVSDPDSGDN GRMVCSTQDD LPFFLKPSEVE NFYTLVISTA LDRETRSEYN 420
 ITITVTDFTG PRLKTEHNIT VLVSDVNDNA PAFTQTSYTL FVRENNSPAL HIGSVSATDR 480
 DSGTNAQVTV SLLPPQDPHL PLASLVISINA DNHGLFALQS LDYEALQAFE FRVGAADRGS 540
 PALSSSEALVR VLVLIDANDNS PFVLYPLQNG SAPCTELVPR AAEFGYLVTK VVAVDGDSGQ 600
 NAWLSYQLLK ATEPLFGVW AHNGEVRTAR LLRERDAAKQ RLVLVVKDNG EPFRSATATL 660
 HVLLVDGFSQ PYLLPRAAP AQAQADLLTV YLVVALASVS SLFLFSVLLF VAVRLCRSR 720
 AASVGRCSVP EGPFPGQMD VSGTGTLSQS YQYEVCLTGG SGTNEFKFLK PIIPNFVAQG 780
 AERVSEANPS FRKSFET

Seq ID NO: 289 DNA sequence
 Nucleic Acid Accession #: NM_018674.1
 Coding sequence: 390..2009

1 11 21 31 41 51

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	ATAAGGGAAG	CCACAAGGAG	ACGATCGAGG	AGAGAGACAA	GCGGCAGCAG	AGGCAGCAGC	180
5	GGCAGAGGCA	GCACAGGGG	TGCGGAGCTG	CTGGGAGTGG	GAGTGACTCC	CCCACCTCGG	240
	GCCCCACCC	TGTCCCTGTC	CTCTTCCCGC	TTGCCCTGAG	TTTGAAGAG	CAGCCGCTGC	300
	CACCACTGCC	ACTCGGGAGG	GCACAGGGG	TGCTGGCTAG	GGAGGGACAG	GGCAGGGAGG	360
	CTCTGGCCAG	TCCAGCAGC	CGGGGACAGA	TGCCGATCGA	GATTGTGTGC	AAAATCAAAT	420
	TTGCTGAGGA	GGATGCGAAA	CCCAAGGAGA	AGGAGGCAGG	GGATGAGCAG	AGCCTCTCTG	480
10	GGGCTGTTC	CCCTGGAGCA	GCCCCCGAG	ACCTGGCCAC	CTTTGCCAGC	ACCAGCACCC	540
	TGCACTGACT	GGGCGGGGCC	TGTGGCCAG	GCCCCACGG	ACTGCGCAGA	ACCCTGTGGG	600
	CACCTGGCCG	ACTCACCTCG	CTGGCTGCCT	TCCTGTACCA	GGCGGCTGGC	CTGGCCCGGG	660
	GCTACCTGAC	CCGGCCTCAC	CTGGTGGCAA	TGACCCCGC	TGCCCCAGCC	CCAGTGGCGG	720
	GCTTCCCGGG	TGTCAACCTC	TGCAATATCA	ACCGCTTCCG	GCATTGGGCA	CTCAGCGATG	780
15	CGACATCTT	CCACCTGGCC	AATCTGACAG	GGCTGCCCCC	CAAAGACCGG	GATGGGCACC	840
	GTGCGGCTGG	CCTGCGCTAC	CCAGAGCCTG	ACATGGTAGA	CATCTCAAC	CGCACTGGCC	900
	ACCAGCTCCG	CTGCAACCTG	AAGAGCTGCA	ACTTCAGTGG	GCATCACTGC	TCCGCCAGCA	960
	ACTTCTCTGT	GGTCTATACT	CGCTATGGGA	AGTGTACAC	CTTCAACGGG	GACCCGCGGA	1020
	GCTCGCTGCC	CAGCCGGGCA	GGGGGCAATG	GCAGTGGCCT	GGAGATCATG	CTGGACATCC	1080
20	AGCAGGAGGA	GTCTGTCCG	ATCTGGAGGG	AGACAAATGA	GACCTCGTTT	GAGGCAGGTA	1140
	TTGCGGTGCA	GATCCACAGC	CAGGAGGAGC	CGCCCTACAT	CCACCAGCTG	GGGTTGCGGG	1200
	TGTCCCGCCG	CTGCAACCTG	TTTGTGCTCT	GCCAGGAACA	GCGGCTGACC	TACCTGGCCC	1260
	AGCCCTGGGG	CAACTGCCGC	GCAGAGAGTG	AGCTCAGGGA	GCTGAGCTT	CAGGGCTACT	1320
	CGGCTACAG	TGTCTTGCC	TGCCGGCTGC	GCTGTGAAAA	GGAGGCCGTG	CTTCAGCGCT	1380
25	GCCACTCCCG	GATGGTGCAC	ATGCCAGGCA	ATGAGACCAT	CTGCCACCA	AATATCTACA	1440
	TGAGTGTGC	AGACCAACAC	CTGGAATCCC	TGGTGGGGGG	CCCTGAGGGC	CGGTGCTTCT	1500
	GCCCCACCCG	CTGCAACCTG	ACAAGCTATG	GGAAAGAGAT	CTCCTAGTTC	AGGATCCCCA	1560
	ACAGGGGCTC	AGCCCGGTAC	CTGGCGAGGA	AGTACAACCG	CAACGAGACC	TACATACGGG	1620
	AGAACTTCTT	GGTCTTAGAT	GTCTTCTTTG	AGGCCCTGAC	CTCTGAAGCC	ATGGAGCAGC	1680
30	GAGCAGGAGA	TGCCCTGTCA	GCCCTGCTGG	GAGACCTCGG	GGGACAGATG	GGCCTGTTCA	1740
	TTGGGGGAGC	CATCTCAGG	TTGCTGGAGA	TCCTGAGCTA	CATCTATGAG	GTGTCTCTGG	1800
	ATCCAGTCAA	GCGGCTATGG	AGGCGTCCCA	AGACCCCTCT	GCGGACCTCC	ACTGGGGGCA	1860
	TCTCCACTTT	GGGCTTCAG	GAGCTGAAGG	AACAGAGTCC	CTGCCGAGC	CTGGGCGGAG	1920
	CGAGGGGTGG	GGGGGTGAGC	AGTCTGCTCC	CCAATCACCA	CCACCCCCAC	GGTCCCCCAG	1980
35	GAGGTCTCTT	TGAAGATTTT	GCTTGTCTAG	ACGGTGTGCT	GACTGAAAGG	ACCCAGGAGT	2040
	CTGGGACCCC	TCTTGGGATC	CCCAGCACAT	TCTCTGCTC	CTGGGAGAGG	CCTGGGGGCG	2100
	GTGCTCACTG	GGAGGGGCCAG	GACTCAGTTC	CTGCTCTCAT	CCTCCCTCTG	CTGATGTCA	2160
	GCTGCTTTGC	ACAAAGGTCC	TTCTTGTCCA	CACCCCTTAT	CCCAGGCTG	GTGCCCGGG	2220
	AGGGCTGGAG	ACCAAGCCAT	GGGCCCTCAC	GGAGAGGAAG	GGAGGAAGG	AGAGGGAGGG	2280
40	GGAGGATAGA	GCCCATCCCA	GCCGGGGAGG	GGGAGCCCTC	TGTACATTGG	TAAATATTTA	2340
	GGGAAAGCCG	GGTGGGGGGA	GGGGATACAG	ATGTAGAAGG	TGGGTAGGGC	TACAGGGGTG	2400
	GGTGATTAG	GGACAGCCAG	GGTCCAGCC	CCAATGTGAG	CAGGATAGGG	AGAGCCCCAG	2460
	GACTCAGGAG	TGCTGGGCTG	GTCTACTTTC	CTGCCCTCT	CCAGGCCAG	CTCCCTCTT	2520
	GGCAGGGGGA	GAGGATGGCC	CAGCAGGCCT	GGCCAGCTC	CCAGTTCCCC	CTGCACCAGC	2580
45	CCCAACCCCTA	GAGTCCCTTC	TATAGGGAGG	GGCAGGAGA	CCTTCCAGAC	TTCCGCTGAG	2640
	CTTGAGGGGT	GGGAAGGGAG	CCTTCTCAGT	CCTCTCTCCC	TCCAGTCTGA	TTTTATAAAG	2700
	TGCTGACGAG						

Seq ID NO: 290 Protein sequence
Protein Accession #: NP_061144.1

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	GPHGLRRTLW	ALALLTSLAA	FLYQAAGLAR	GYLTRPHLVA	MDPAAPAPVA	GPPAVTLANI	120
55	NRFRHSALSD	ADIFPHLANLT	GLPPKDRDGH	RAAGLRYPEP	DMVDILNRTH	HQLADMLKSC	180
	NPSGHHCSAS	NFSVVYTRYG	KCYTFNADPR	SSLPSRAGGM	GSGLLEIMLDI	QOEYLPITWR	240
	ETNETSPFAG	IRVQIHSQEE	PPYIHLQIFG	VSPGFQTFVS	QOEQLTYLTP	QFWNCRAES	300
	ELRPELQGY	SAYSVSACRL	RCEKEAVLQR	CHCRMVBMFG	NETICPPNIY	IECADHTLDS	360
	LGGGPEGPCF	CPTPCNLTRY	GKEISMVRIP	NRGSARYLAR	KYNRNETYIR	ENFLVLDVFP	420
60	EALTSEAMEQ	RAAYGLSALL	GDLGGMGLF	IGASILTLLS	ILDYIYEVSW	DRLKRVWRRP	480
	KTPLRTSTGG	ISTLGLQELK	BQSPCPSLGR	ASGGVSSLL	PNHHHPGPP	GGLFEDFAC	

Seq ID NO: 291 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 62..895

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	AGAAGCACGG	TCTGGCAAA	ACAAGCTCAC	CTACGCAGAA	GCTAAGGCGG	TGTGTGAATT	240
	TGAAGCGGCG	CATCTCGCAA	CTTACAAGCA	GCTAGAGGCA	GCCAGAAAAA	TTGGATTTC	300
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75	GCCCACTGTG	GGATTGGAA	AACTGGCAT	TATGTATTAT	GGAATCCGTC	TCAATAGGAG	420
	TGAAGATAGG	GTCATGCTAT	GCTACAACCC	ACACGCAAA	GAGTGTGGTG	GCGTCTTTAC	480
	AGATCCAAAG	CAAAATTTTA	AATCTCCAGG	CTTCCCAAT	GAGTACGAAG	ATAACCAAT	540
	CTGCTACTGG	CACATTAGAC	TCAAGTATGG	TCAGCGTATT	CACCTGAGTT	TTTGTAGATT	600
	TGACCTTGAA	GATGACCCAG	GTTGCTTGGC	TGATTATGTT	GAAATATATG	ACAGTTACGA	660
80	TGATGTCCAT	GGCTTTGTGG	GAAGATACTG	TGGAGATGAG	CTTCCAGATG	ACATCATCAG	720
	TACAGAAAT	GTCAATGACT	TGAAGTTTCT	AAGTATGCT	TCAGTGACAG	CTGGAGGTTT	780
	CCAAATCAAA	TATGTTGCAA	TGGATCTCTG	ATCCAAATCC	AGTCAAGGAA	AAAATACAA	840
	TACTACTTCT	ACTGGAATAA	AAAATCTTTT	AGCTGGAAGA	TTTAGCCACT	TATAAAAAA	900
	AAAAAAGGA	TGATCAAAAC	ACACAGTGT	TATGTTGGAA	TCTTTTGGAA	CTCCTTTGAT	960

5 CTCACTGTGA TTATTAACAT TTATTTATTA TTTTCTAAA TGTGAAAGCA ATACATAATT 1020
TAGGGAAAT TGGAAATAT AGGAACTTT AACGAGAAA ATGAAACCTC TCATAATCCC 1080
ACTGCATAGA AATAACAGC GTTAACATTT TCATATTTTT TTCTTTCAGT CATTTTTCTA 1140
TTTGTGGTAT ATGTATATAT GTACCTATAT GTATTTGCAT TTGAAATTTT GGAATCCTGC 1200
TCTATGTACA GTTTGTATT ATACTTTTAA ATCTTTGAAC TTTATAAACA TTTTCTGAAA 1260
TCATTGATTA TTCTACAAA ACATGATTTT AAACAGCTGT AAAATATTCT ATGATATGAA 1320
TGTTTTATGC ATTATTTAAG CCTGTCTCTA TTGTTGGAAT TTCAGGTCAT TTTCATAAAT 1380
ATTGTTGCAA TAAATATCCT TGAACACACA AAAAAAAAAA AA

10 Seq ID NO: 292 Protein sequence
Protein Accession #: Eos sequence

15 1 11 21 31 41 51
MIILIYLFLL LWEDTQGWGF KDGIHFNSIW LERAAGVYHR EARSQKYKLT YAEAKAVCEF 60
EGGHLATYKQ LEARKIGFH VCAAGWMAKG RVGYPIVKPG PNCGFQKGTGI IDYGIRLNRS 120
ERWDAYCYNP HAKECGGVFT DPKQIFKSPG FPNEYEDNQI CYWHIRLKYG QRIHLSFLDF 180
DLEDDPGCLA DVVEIYDSYD DVHGFVGRYC GDELPPDDIIS TGNVMTLKLFL SDASVTAGGF 240
QIKYVAMPDV SKSSQKGNTS TTSTGNKNFL AGRFSLH

20 Seq ID NO: 293 DNA sequence
Nucleic Acid Accession #: NM_007115.1
Coding sequence: 69..902

25 1 11 21 31 41 51
GAATTGCGAC TGCTCTGAGA ATTTGTGAGC AGCCCTTAAC AGGCTGTTC TCACTACAA 60
CTGACGATAT GATCATCTTA ATTACTTAT TTCTCTTGCT ATGGGAAGAC ACTCAAGSAT 120
GGGGATTCAA GGAATGGAATT TTTCATAACT CCATATGGCT TGAACGAGCA GCCGGTGTGT 180
30 ACCACAGAGA AGCAGCGTCT GGCAAAATACA AGCTCACCTA CGCAGAAGCT AAGGCGGTGT 240
GTGAATTGA AGCGCGCCAT CTCGCAACTT ACAAGCAGCT AGAGCGAGCC AGAAAAATTG 300
GATTTGATG CTGTGCTGCT GGATGGATGG CTAAGGGCAG AGTTGGATAC CCCATTGTGA 360
AGCCAGGGCC CACTGATGA TTTGGAAAAA CTGGCATTAT TGATTATGGA ATCCGCTCTCA 420
ATAGGAGTGA AAGATGGGAT GCCTATTGCT ACAACCCACA CGCAAAGGAG TGTGGTGGCG 480
35 TCCTTACAGA TCCAAAGCGA ATTTTAAAT CTCAGGCTT CCCAAATGAG TACGAAGATA 540
ACCAAATCTG CTACTGGCAC ATTAGACTCA AGTATGGTCA GGTATTTCAC CTGAGTTTCT 600
TAGATTTTGA CTTGAAGAT GACCCAGGTT GCTTGGCTGA TTATGTTGAA ATATATGACA 660
GTACAGATGA TGTCCATGGC TTTGTGGGAA GATACTGTGG AGATGAGCTT CCAGATGACA 720
40 TCATCAGTAC AGGAAATGTC ATGACCTTGA AGTTTCTAAG TGATGCTTCA GTGACAGCTG 780
GAGGTTTCCA AATCAAATAT GTTGCAATGG ATCCTGTATC CAAATCCAGT CAGGAAAAAA 840
ATACAAGTAC TACTTCTACT GGAAATAAAA ACTTTTATAG TGAAGATTT AGCCACTTAT 900
AAAAAAAAAA AAGGATGATC AAAACACACA GTGTTTATGT TGAATCTTT TGAATCCTCT 960
TTGATCTCAC TGTATTATT AACATTATT TATTATTTT CTAAATGTGA AAGAAATACA 1020
45 TAATTTAGGG AATATTGGA AATATAGGAA ACTTTAAACG AGAAATGAA ACCTCTCATA 1080
ATCCACTGCG ATAGAAATAA CAAGCGTTAA CATTTTCATA TTTTTCCT TCAGTCATT 1140
TTGTAATTTG GGTATATGTA TATATGTACC TATATGTATT TGCAATTGAA ATTTTGGAA 1200
CCTGCTCAT ATCAGTTTGT GTATTATACT TTTTAAATCT TGAATCTTAT GAACATTTTC 1260
TGAAATCATT GATTATTCTA CAAAACATG ATTTTAAACA GCTGTAAATAT ATTCTATGAT 1320
50 ATGAATGTTT TATGCAATT TTAAGCCTGT CTCTATTGTT GGAATTCAG GTCAATTTC 1380
TAAATATTGT TGCAATAAT ATCCTTCGGA ATTC

Seq ID NO: 294 Protein sequence
Protein Accession #: NP_009046.1

55 1 11 21 31 41 51
MIILIYLFLL LWEDTQGWGF KDGIHFNSIW LERAAGVYHR EARSQKYKLT YAEAKAVCEF 60
EGGHLATYKQ LEARKIGFH VCAAGWMAKG RVGYPIVKPG PNCGFQKGTGI IDYGIRLNRS 120
ERWDAYCYNP HAKECGGVFT DPKRIFKSPG FPNEYEDNQI CYWHIRLKYG QRIHLSFLDF 180
60 DLEDDPGCLA DVVEIYDSYD DVHGFVGRYC GDELPPDDIIS TGNVMTLKLFL SDASVTAGGF 240
QIKYVAMPDV SKSSQKGNTS TTSTGNKNFL AGRFSLH

65 Seq ID NO: 295 DNA sequence
Nucleic Acid Accession #: NM_001218.2
Coding sequence: 116..1180

70 1 11 21 31 41 51
GTACTCGCCA CGGCACCCAG GCTGCGGCA CGCGGTCCCG GTGTGCAGCT GGAGAGCGAG 60
CGGCCACCGG GAGCCCCCGG CACAGCCCGC GCCCGCCCCG CAGGAGCCCG CGAAGATGCC 120
CGGCGCAGC CTGCACGCGG CGGCCGTGCT CCTGCTGGTG ATCTTAAAGG AACAGCCTTC 180
CAGCCCGGCC CCAGTGAACG GTTCCAAGTG GACTTATTTT GGTCTGATG GGGAGAATAG 240
75 CTGGTCCAAG AAGTACCCGT CGTGTGGGGG CCTGCTGCAG TCCCCCATAG ACCTGCACAG 300
TGACATCTCT CAGTATGACG CCAGCCTCAC GCCCCTCGAG TTCCAAGGCT ACAATCTGTC 360
TGCCAAACAG CAGTTTCTCC TGACCAACAA TGGCCATTCA GTGAAGCTGA ACCTGCCCTC 420
GGACATGCAC ATCCAGGGCC TCCAGTCTCG CTACAGTGCC ACGCAGCTGC ACCTGCACGT 480
GGGGAACCCG AATGACCCGC ACGGCTCTGA GCACACCGTC AGCGGACAGC ACTTGCCTGC 540
CGAGCTGCAC ATTGTCCATT ATAACCTAGA CCTTATCTCT GACGCCAGCA CTGCCAGCAA 600
80 CAAGTCAGAA GGCTTCGCTG TCCTGGCTGT TCTCATGTAG ATGGGCTCCT TCAATCCGTC 660
CTATGACAAG ATCTTCAGTC ACCTTCAACA TGTAAGTAC AAAGGCCAGG AAGCATTCGT 720
CCCGGATTTC AACATTGAAG AGCTGCTTCC GGAGAGGACC GCTGAATATT ACCGCTACCG 780
GGGCTCCCTG ACCACACCCC CTGTCAACCC CACTGTGCTC TGGACAGTTT TCCGAAACCC 840
CGTGCAAAAT TCCAGGAGC AGCTGCTGCG TTTGGAGACA GCCCTGTACT GCACACACAT 900

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GGACGACCCT TCCCCAGAG AAATGATCAA CAACTTCCGG CAGSTCCAGA AGTTCGATGA 960
GAGGCTGGTA TACACCTCCT TCTCCCAAGT GCAAGTCTGT ACTGCGGCAG GACTGAGTCT 1020
GGGCATCATC CTCTCACTGG CCTTGGCTGG CATTTCTGGC ATCTGTATTG TGGTGGTGGT 1080
GTCCATTGGG CTTTTAGAG GGAAGAGTAT CAAAAAGGT GATAACAAGG GAGTCATTTA 1140
CAAGCCAGCC ACCAAGATGG AGACTGAGGC CCACGCTTGA GGTCCCCGGA GCTCCCGGGC 1200
ACATCCAGGA AGSACCTTGC TTTGGACCC TACACACTTG ACACACTTGG GCTCTCTGGA CACTTGGCAG 1260
ACCTCAAGGT GTTCTCTGTA GCTCAATCTG CAAACATGCC AGGCCTCAGG GATCCTCTGC 1320
TGGGTGCCTC CTGGCCTTGG GACCATGGCC ACCCCAGAGC CATCCGATCG ATGGATGGGA 1380
TGCACTCTCA GACCAAGCAG CAGGAATTCA AAGCTGCTTG CTGTAACTGT GTGAGATTGT 1440
GAAGTGGTCT GAATTCTGGA ATCACAACC AAGCCATGCT GGTGGGCCAT TAATGGTTGG 1500
AAAACACTTT CATCCGGGGC TTTGCCAGAG CGTGCTTTCA AGTGTCTGG AAAGTCTGCT 1560
GCTTCTCCAA GCTTTCAGAC AAGAATGTGC ACTCTCTGCT TAGGTTTTGC TTGGGAAACT 1620
CAACTTCTTT CCTCTGGAGA CGGGCATCT CCCTCTGATT TCCTTCTGCT ATGACAAAAC 1680
CTTTAATCTG CACTTACAA CTCGGGGACA AATGGGGACA GGAAGGATCA AGTTGTAGAG 1740
AGAAAAAGA AAACAAGAGA TATACATTGT GATATATTAG GGACACTTTC ACAGTCTCTG 1800
CCTCTGGATC ACAGACACTG CACAGACCTT AGGGAATGGC AGGTTCAAGT TCCACTTCTT 1860
GGTGGGGATG AGAAGGGAGA GAGAGCTAGA GGGACAAAGA GAATGAGAAG ACATGGATGA 1920
TCTGGGAGAG TCTCACTTGG GAATCAGAAT TGGAAATACA TTCTGTTTAT CAAGCCATAA 1980
TGTAAGGACA GAATAATACA ATATTAAATC CAAATCCAAC CTCTCTGAG TGGAGCAGTT 2040
ATGTTTTATA CTCTACAGAT TTTACAAATA ATGAGGCTGT TCCTTGAAAA TGTGTTGTTG 2100
CTGTGTCCTG GAGGAGACAT GAGTTCGGAG ATGACCCAAT CTGCTTTTGA ATCTGGAGGA 2160
AATAGGCAGA AACAATAATG CTGTAGAACT TATTCTCTGT AGGCCAAATT TCATTTCAGC 2220
CACTTCTGCA GGATCCCTAC TGCCAACTGT GAATGGAGAC TTTTATCTAC TTCTCTCTCT 2280
CTGAAGATGT CACTTCTGAG TTTAGATCAA ATATATTCCA AGCTATAAAA GCAGGAGGTT 2340
ATCTGTGCGA GGGGCTGGCA TCATGTATTT AGGGGCAAGT AATAATGGAA TGCTACTAAG 2400
ATACTCCATA TTCTTCCCGG AATCACACAG ACAGTTTCTG ACAGGCGCAA CTCTCCATT 2460
TTCTCTCCCG AGGTGAGAAC CCTGTGGAGA TGAGTCAGTG CCATGACTGA GAAGGAACCG 2520
ACCCCTAGTT GAGAGCACTT TGCAGTTCCT CGAGAACTTT CTGATTACAA GTCTCATTTT 2580
GACAGCATGA AATGCTCTCT TGAAGCATAG CTTTTAAAT ATCTTTTCTC TTCTACTCCT 2640
CCCTCTGACT CTAAGAATTC TCTCTCTGG AATCGCTTGA ACCCAGGAGG CGGAGGTTGC 2700
AGTAAGCCAA GGTCAATGCC CTGCACTCTA GCCTGGGTGA CAGAGCGAGA CTCCATCTCA 2760
AAAAA AAAA

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Seq ID NO: 296 Protein sequence
Protein Accession #: NP_001209.1

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1 11 21 31 41 51
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MRRSLHAA VLLVLKBEQ PSSPAPVNGS KWTYFGPDGE NSWSKYPSC GLLQSPIDL 60
HSDILQYDAS LTFLEFGQYN LSANKQFLLT NNGHSVKLNL PSDMHIQGLQ SRYSATQLHL 120
HWGNPNDFHG SBHTVSGQHF ARLHIVHYN SDLYPDASTA SNKSEGLAVL AVLIEMGSFN 180
PSYDKIFSHL QHVKYKGQEA FVPGFNIEL LPERTAERYR YRGLSTTPPC NPTVLWTVFR 240
NPVQISQEQ LLALETALYCT HMDDPSPREM INNFRQVQKF DERLVYTSFS QVQVCTAAGL 300
SLGIILSLAL AGILGICIVV VSIWLFPRK SIKKGDNKGV IYKPAKMET EABA

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Seq ID NO: 297 DNA sequence
Nucleic Acid Accession #: NM_006632.1
Coding sequence: 377..1582

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1 11 21 31 41 51
| | | | |
ACGCGTCCGC CACGCGTCC GCCACGGGT CCGTCCGGG CCAGAGCGCA GGTGTACCTG 60
GGGCGCGTGC TGGAGCACCCT GACCGCCGAG ATCTCGGAGC TGGCTGGCAA CCGCGCCCGC 120
GACAAGAGA CCGCATCAT CTGCGCCAC CTGTAGCTGG CCATTGCGAA CGGCGAGGAG 180
CTTAACAAGC TGCTGGCGGA AGTCACCATC GCGCAGGCGG GTGTCTGCC CAACATTTCAG 240
GGCGTGCTTC TGCCCCAGAA GACCAAGAGC CACCAACAGG CCAAGGGTGA AAACCATTC 300
CTAGGAGAGG AGAAACACAA TGGCCACCAA GACAGAGTTG AGTCCACAG CAAGGGAGAG 360
CAGAACGCA CAAGATATGC AAGTGGATGA GACACTGATC CCCAGGAAAG GTCCAAGTTT 420
ATGTTCTGCT CGCTATGGAA TAGCCCTGCT CTTACATTTC TGCAATTTC CAACGATAGC 480
ACAAAATGTC ATCATGAACA TCACCATGGT AGCCATGGTC AACAGCACAA GCCCTCAATC 540
CCAGCTCAAT GATTCTCTCT AGGTGCTGCC TGTGTACTCA TTTGGTGGCC TAAGTAAAGC 600
CCCAAGAGAT CTTCCTGCAA AGTCTCAAT ACTTGGGGGT CAGTTTGCAA TTTGGGAAAA 660
GTGGGGCCCT CCACAAGAAC GAAGCAGACT CTGCAGCATT GCTTTATCAG GAATGTTACT 720
GGGATGCTTT ACTGCCATCC TCATAGGTGG CTTCAATAGT GAAACCCCTG GGTGGCCCTT 780
TGTCTTCTAT ATCTTTGAGG GTGTGGCTG TGTCTGCTGC CTCTCTGGT TGTGTGTGAT 840
TTATGATGAC CCTTTTCTCT ATCCATGGAT AAGCACTCTA GAAAAAGAA ACATCATATC 900
CTCCTTGAAA CAACAGGTGC GGTCTTCTAA GCAGCCTCTT CCCATCAAAG CTATGCTCAG 960
ATCTCTACCC ATTTGGTCCA TATGTTTAGG CTGTTTCAGC CATCAATGGT TAGTTAGCAC 1020
AATGGTGTGA TACATACCAA CTTACATCAG CTCGTGTGAC CATGTTAACA TCAGAGACAA 1080
TGGACTTCTA TCTGCCCTTC CTTTATTGTT TGCCTGGGTC ATAGGCAATG TGGGAGGCTA 1140
TCTGGCAGAT TTCTTCTCAA CCAAAAAGTT TAGACTCATC ACTGTGAGGA AAATTGCCAC 1200
AATTTTAGGA AGTCTCCCTT CTTGAGCACT CATTGTGTCT CTGCTTACC TCAATTCGG 1260
CTATATCACA GCAACTGCCT TGCTGAGCCT CTCTGCGGA TTAAGCACAT TGTGTGAGTC 1320
AGGGATTAT ATCAATGTCT TAGATATTGC TCCAAGGTAT TCCAGTTTTC TCATGGGAGC 1380
ATCAAGAGGA TTTTCCAGCA TAGCACCTGT CATTGTACCC ACTGTGAGCG GATTCTTCT 1440
TAGTCAGGAC CCGTAGTTTG GGTGGAGGAA TGTCTTCTTC TTGCTGTTG CCGTTAACCT 1500
GTTAGGACTA CTCTTCTACC TCATATTGG AGAAGCAGAT GTCCAAGAA GGGCTAAAGA 1560
GAGAAACTC ACTCGTTTAT GAAGTTATCC CACCTTGGAT GGAAAAGTCA TTAGGCACCG 1620
TATTGCTATA AATAGAAGGC TTCCGTGATG AAAATACCAG TGAAAAGATT TTTTCTCT 1680
GTGGCTCTTT TCAATTATGA GATCAGTTCA TTAATTTATT CAGACTTTTT TTTGAGAGAA 1740
ATGTAAGATG AATAAAAT CAAATAAAT GATAACTAAG AAAAAA AAAA

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Seq ID NO: 298 Protein sequence
Protein Accession #: NP_006623.1

1 11 21 31 41 51
5 MOVDDELIPR KGPSLCSARY GIALVLHFCN FTIAQNVIM NITMVMVNS TSPOSQNLDS 60
SEVLVPDVSFG GLSKAPKSLP AKSSILGGQF AIWEKWPQPQ ERSRLCSIAL SGMLLGCFTA 120
ILIGGFISSET LGWPFVPIYF GVGCVCCLL MFVVIYDDPF SYPWISTSEK EYIISLKKQ 180
VGSSKQPLPI KAMLRSLPIW SICLGCFSHQ WLVTMVVYI PTYISSVYHV NIRDNGLLSA 240
LPFIWAWVIG MVGGYLADFL LTKKFLITV RKIATILGSL PSSALIVSLP YLNSGYITAT 300
10 ALLTLSCGLS TLCQSGIYIN VLDIAPRYSS FLMGASRGFS SIAPVIVPTV SGFLLSQDPE 360
FGWRNVFELL FAVNLLGLLF YLIFGEADVQ EWAKERKLTR L

Seq ID NO: 299 DNA sequence
Nucleic Acid Accession #: NM_003058.1
Coding sequence: 145..1812

1 11 21 31 41 51
15 GGCCCTGCCG TGAAGGCTGG TCACTTGCG AGGTAAATCT CCCTCTTTGA CTTCTGGCCA 60
GGGTTTGTC TGAGCTGGCT GCAGCGCTC TCAGCCTCG TCGGGCAGC TCGGGCAGCC 120
20 TCGGGCCCTC CTGCTGCGAG GATCATGCC ACCACCGTGG ACAGTGTCTT GGAGCATGGA 180
GGGAGTTTC ACTTTTCCA GAAGCAAATG TTTTCTCTCT TGGCTCTGCT CTCGGCTACC 240
TTGCGGCCCA TCTACGTGGG CATCGTCTTC TCGGCTTCA CCCCTGACCA CCGCTGCCGG 300
AGCCCCGAG TGGCCGAGCT GAGTCTGCG TCGGCTGGA GTCTGCAGA GGAAGTGAAC 360
25 TACACGGTGC CGGCGCCAG ACCTGCGGGC GAAGCCTCCC CAAGACAGT TAGGCGCTAC 420
GAGGTGGACT GGAACCGAG CACCTTTGAC TCGGTGGACC CCCTGGCCAG CCTGGACACC 480
AACAGGAGCC GCTCGCCACT GGGCCCTGCG CGGGAAGGCT GGGGTACGA GACGCGTGGC 540
TCGTCCATCG TACCGAGTT TAACCTGGTA TGTGCCAAT CCTGGATGTT GGACCTATT 600
CAGTCATCAG TGAATGTAGG ATTCTTTATT GGCTCTATGA GTATCGGCTA CATAGCAGAC 660
30 AGGTTTGCCG GTAAGCTCTG CCTCCTAAT ACAGTCTCA TAAATGCTGC AGCTGGAGTT 720
CTCATGGCCA TTTCCCCAAC CTATACGTGG ATGTTAATTT TCGCTTAAT CCAAGGACTG 780
GTACGCAAG CAGGCTGGTT AATAGGCTAC ATCCTGATTA CAGAATTGT TGGGCGGAGA 840
TATCGGAGAA CAGTGGGGAT TTTTACCAA GTTGCCATA CAGTTGGGCT CCTGGTGCTA 900
GCTGGGGTGG CTTACGCAT TCCTCACTGG AGGTGGTTGC AGTTCACAGT TGCTCTGCC 960
35 AACTTCTCT TCTTGCTCTA TTACTGGTGC ATACCTGAGT CTCCCAGGTG GCTGATCTCC 1020
CAGAATAAGA ATGCTGAAGC CATGAGAATC ATTAAGCACA TCGCAAAGAA AAATGGAAAA 1080
TCTCTACCG CCTCCCTTCA CGCCTGAGA CTGAAGAGG AAATCGGCAA GAAATTGAAC 1140
CCTTCAATTC TTGACTTGTG CAGAACTCCT CAGATAAGGA AACATACTAT GATATTGATG 1200
TACAACTGGT TCACGAGCTC TGTGCTCTAC CAGGCGCTCA TCATGCACAT GGGCCTTGCA 1260
40 GGTGACAATA TCTACTGGA TTTCTTCTAC TCTGCCCTGG TTGAATPCC AGCTGCCTTC 1320
ATGATCATCC TCACCATCGA CGCATCGGA CGCGGTATCC CTGGGCTGC ATCAAAATATG 1380
GTTGAGGGG GAGCTGTCTT GGCCTCAGTT TTTATACCTG GTGATCTACA ATGGCTAAAA 1440
ATTATTATCT CATGCTTGGG AAGAATGGGG ATCAAAATGG CCTATGAGAT AGTCTGCCTG 1500
GTCAATGCTG AGCTGTACCC CACATTCATT AGGAATCTTG GCGTCCACAT CTGTTCTCTA 1560
45 ATGTGTGACA TGTGTGGCAT CATCAGCCA TTCCTGCTCT ACCGCTCTAC TAACATCTGG 1620
CTTGAGCTCC CGCTGATGTT TTTGCGCTA CTGGCTTGG TTGCTGGAGG TCTGGTGCTG 1680
TTGCTTCCAG AAACCTAAAG GAAAGCTTTG CCTGAGACCA TCGAGGAAGC CGAAAATATG 1740
CAAGACCAA GAAATAATAA AGAAAGATG ATTTACCTCC AAGTTCAGAA ACTAGACATT 1800
CCATTGAATC AAGAAGAGAG ACCGTTGCTG CTGTATGAC CTAGCTTTGA TGGCAGCAAG 1860
50 ACCAAAGATA GAAATCCCTG CACTATCAC AAAGCCCATC CAATCAACC AAATTTACCC 1920
CTGAGCCCTA TCAACCTAGG TCTACAGCCA GTGAGTCTA TTGTACACTG TGGAAAAATA 1980
CCCATGGGAC CAGATCTCTG CAAATCTTCT CAGCTCACTT TATCTCAGC ATTCTAGGA 2040
CATGTGACAT TGGTTTCTG GAGGGTTTTT TTTCCGATCT TTGTATTTTT TAAATTTGA 2100
TCTTTTCTT TGCAATGCTA GCAACCAGAA TACATAGGGG AACTGTGGGC TAGGCAANA 2160
55 AAATAGAAAA AGTGTGAAAA ACAGTAAAGT TGGGAGAGGA GCATCTATTT TCTTAAAGAA 2220
ATAAACACC NAAAAAANA AAAAAAANA AAAAAA

Seq ID NO: 300 Protein sequence
Protein Accession #: NP_003049.1

1 11 21 31 41 51
60 MPTIVDDVLE HGGEFHFQK QMFFLLALLS ATPAPIYVGI VFLGTFDHR CRSPGVARLS 60
LRGWSFAEE LNYTVPGPGP AGEASPRQR RYEDWNQST FDCVDPLASL DTNRSRLPLG 120
65 PCRDGWVYET PGSSIVTEFN LVCANSWMLD LPQSSVNVGF FIGSMSIGYI ADRFGRKLCL 180
LTTVLINAAA GVLMAISPTY TWMLIFRLIQ GLVSKAGWLI GYILITEFVG RRYRRTVGIF 240
YQVAYTVGLL VLAGVAYALP HWRWLQFTVA LPNFFLLYY WCIPESPRWL ISQNKNAEAM 300
RIIKHIAKQN GKSLPASLQR LRLEETGKK LNPSFLDLVR TPQIRKHTMI LMYNWFTSSV 360
LYQGLIMHMG LAGDNILYDF FYSALVEPPA AFMIILTIDR IGRYPWAAS NMVAGAACLA 420
70 SVFIPGDLQW LKIIISCLGR MGITMAYEIV CLVNAELYPT FIRNLGVHIC SSMCDIGGII 480
TPFLVYRLTN INLELPLMVF GVLGLVAGGL VLLLPEKKGK ALPETIEEAE NMQRPRKNKE 540
RMILVQVQL DIPLN

Seq ID NO: 301 DNA sequence
Nucleic Acid Accession #: NM_012206.1
Coding sequence: 52..1131

1 11 21 31 41 51
80 GTTACCCAGC ATTGTGAGTG ACAGAGCCTG GATCTGAACG CTGATCCCAT AATGCATCCT 60
CAAGTGTGCA TCTTAAGCCT CATCTACAT CTGGCAGATT CTGTAGCTGG TTCTGTAAAG 120
GTTGGTGGAG AGGCAGGTCC ATCTGTACA CTACCTGCC ACTACAGTGG AGCTGTACA 180
TCAATGTGCT GGAATAGAGG CTCATGTCTT CTATTACAT GCCAAATGG CATTGTCTGG 240
ACCAATGGAA CCCACGTCAC CTATCGAAG GACACACGCT ATAAGCTATT GGGGACCTT 300
TCAAGAAGGG ATGTCTCTTT GACCATAGAA AATACAGCTG TGTCTGACAG TGGCGTATAT 360

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TGTGTGCCGTG TTGAGCACC GGGGTGGTTC AATGACATGA AAATCACCGT ATCATTGGAG 420
ATTGTGCCAC CCAAGGTAC GACTACTCCA ATTGTACAA CTGTTCACAC CGTCACGACT 480
GTTTGAACGA GCACCACTGT TCCAACGACA ACGACTGTTC CAACGACAAC TGTTCACAAC 540
ACAAATGAGCA TTCCAACGAC ACGACTGTTC CCGACGACAA TGACTGTTTC AACGACAACG 600
AGCGTTCCAA CGACAACGAG CATTCCAACA ACAACAGTG TTCCAGTGAC AACCAACGGTC 660
TCTACCTTTG TTCTCCAAAT GCCTTTGCC AGGCAGAAC ATGAACCACT AGCCACTTCA 720
CCATCTTCAC CTCAGCCAGC AGAAACCCAC CCTACGACAC TGCAGGGAGC AATAAGGAGA 780
GAACCCACCA GCTCACCATT GTACTCTTAC ACAACAGATG GGAATGACAC CGTGACAGAG 840
TCTTCAGATG GCCTTTGGAA TAACAATCAA ACTCAACTGT TCCTAGAACA TAGTCTACTG 900
ACGGCCAATA CCACTAAAGG AATCTATGCT GGAGTCTGTA TTTCTGTCTT GGTGCTTCTT 960
GCTCTTTTGG GTGTCTCAT TGCCAAAAAG TAITTCTTCA AAAAGGAGGT TCAACAATA 1020
AGTGTTCAT TTAGCAGCCT TCAAATTAAA GCTTTGCAAA ATGCAGTTGA AAAGGAAGTC 1080
CAAGCAGAG ACAATATCTA CATTGAGAAT AGTCTTTATG CCACGGACTA AGACCCAGTG 1140
GTGCTCTTTG AGAGTTTACG CCCATGACTG CAGAAGACTG AACAGGTATC AGCACATCAG 1200
ATGTCCTTTA GACTCCAAGA CAATTTTCT GTTTTCAGTT CATCTGGCAT TCCAACATGT 1260
CATGTATACT GGTGATAGTA ACTCTCCAC TCCAACTGT GTATAGTCAA CCTCATCATT 1320
AATGTAGTCC TAATTTGTTT TGCTAAACT GGCTCAATCC TTCTGATCAT TGCAGAGTTT 1380
TCTCTCAAC ATGAACACTT TAGAATTGTA TGTCTCTTT AGACCCATA AATCTGTAT

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Seq ID NO: 302 Protein sequence
Protein Accession #: NP_036338.1

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1 11 21 31 41 51
MHPQVILSL ILHLADSVAG SVKVGGEAGP SVTLPCHYSG AVTSMCNWRG SCSLFTCQNG 60
IIVWNGTHYT YRKDTRYKLL GDLRRDVS L TIENTAVSDS GUYCCRVHR GWFNMDKITV 120
SLEIVPKVT TPIVITVPT VITVRTSTTV PTTTIVPTT VPTTMSIPT TTVPTTIVS 180
TTTSVPTTTS IPTTTSVPVT TTVSTFVPPM PLPRQNHFPV ATSPSSPQPA ETHPTTLQGA 240
IRREPTSSPL YSYTTDGNDD VTSSDGLWN NNQTLFLFLEH SLLTANTTKG IYAGVCISVL 300
VLLALLGVII AKKYFFKKEV QQLSVSFSSL QIKALQNAVE KEVQAEDNIY IENSLYATD

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Seq ID NO: 303 DNA sequence
Nucleic Acid Accession #: NM_001044.1
Coding sequence: 129..1991

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1 11 21 31 41 51
ACCGCTCCGG AGCGGGAGGG GAGGCTTCGC GGAACGCTCT CGGCGCCAGG ACTCGCGTGC 60
AAAGCCGAGG CCGGGGCGGC CAGACCAAGA GGAAGAAGC ACAGAATTCC TCAACTCCCA 120
GTGTGCCCAT GAGTAAGAGC AAATGCTCCG TGGGACTCAT GTCTTCCGTG GTGGCCCCGG 180
CTAAGGAGCC CAATGCCGTG GGCCCGAAGG AGGTGGAGCT CATCCTGTGC AAGGAGCAGA 240
ACGGAGTGCA GCTCACCAGC TCCACCTCTA CCAACCGCG GCAGAGCCCC GTGGAGGCCC 300
AGGATCGGGA GACCTGGGGC AAGAAGATCG ACTTCTCCT GTCCGTCTAT GGCTTTGCTG 360
TGGACCTGAC CAACCTCTGG CGGTTCCTCT ACCTGTGCTA CAAAATAGT GGCGGTGCCT 420
TCTCGGTCCC CTACCTGCTC TTCATGGTCA TTGCTGGGAT GCCACTTTTC TACATGGAGC 480
TGCCCTCCGG CCAGTTCAC AGGGAAGGGG CCGCTGGTGT CTGGAAGATC TGCCCCATAC 540
TGAAAGGTGT GGGCTTCAAG GTCATCTCTA TCTCACTGTA TGTGCGCTTC TTCTACAACG 600
TCATCATGCG CTGGGCGCTG CACTATCTCT TCTCTCTCT CACCAGCGAG CTCCCCTGGA 660
TCCACTGCAA CAACCTCTGG AACAGCCCCA ACTGCTCGGA TGCCCATCTC GGTGACTCCA 720
GTGGAGACAG CTCGGGCTCT AACGACACTT TTGGGACCAC ACCTGCTGCC GAGTACTTTG 780
AACGTGGGCT GCTGCACTCT CACCAGAGCC ATGGCATOGA GCACCTGGGG CCTCGCGGCT 840
GGCAGCTCAC AGCCTGCCTG GTGCTGGTCA TCGTGTCTGT CTACTTCAGC CTCTGGAAGG 900
CGCTGAAGAC CTCAGGGAAG GTGGTATGGA TCACAGCCAC CATGCCATAC GTGGTCTCTA 960
CTGCCCTGCT CAGCTGGGGG GTCACTCTCC CTGGAGCCAT AGACGGCATC AGAGCATACC 1020
TGAGCTGTGA CTCTTACCGG CTCTGCGAGG CGTCTGTTTG GATTGACGGG GCCACCCAGG 1080
TGTGCTTCTC CCTGGGCGTG GGGTTGGGGT TGCTGATCGC CTTCTCCAGC TACAACAAGT 1140
TCACCAACAA CTGCTACAGG GACGCGATTG TCACCACTCT CATCACTCC CTGACGAGCT 1200
TCTCTCTCGG CTCTGCTGTC TTCTCTCTCC TGGGGTACAT GGCACAGAG CACAGTGTGC 1260
CCATCGGGGA CGTGGGCCAG GACGGGCCAG GGCTGATCTT CATCATCTAC CGGGAAGCCA 1320
TCGCCACGCT CCTCTGTCTC TCAGCCTGGG CCGTGGTCTT CTTTCATCAT CTGCTCAACC 1380
TGGGTATGGA CAGCGCCATG GGTGGTATGG AGTCAGTGAT CACCGGGCTC ATCGATGAGT 1440
TCCAGCTGCT GCACAGACAC CGTGAGCTCT TCACGCTCTT CATGCTCTG GCGACCTTCC 1500
TCTCTGCTCT GTTCTGCTGC ACCAACGCTG GCATCTACGT CTTCAAGCTC CTGGACCAT 1560
TTGACGCGGG CAGCTCCATC CTCTTTGGAG TGCTCATCGA AGCCATCGGA GTGGCCTGGT 1620
TCTATGGTGT TGGGCACTTC AGCGACGACA TCCAGCAGAT GACCGGGCAG CGGCCAGCC 1680
TGTACTGGGG GCTGTGCTGG AAGCTGGTCA GCCCTGCTT TCTCTGTTT GTGGTCTGTT 1740
TCAGCATGCT GACCTTCAGA CCCCCCACT ACGGAGCCTA CATCTTCCC GACTGGGCCA 1800
ACGCGCTGGG CTGGGTCTAT GCCACATCTT CCATGGCCAT GGTGCCCATC TATGCGGCCT 1860
ACAAATTCTG TGCCCTGCCT GGGTCTCTTC GAGAGAAACT GGCCATAGCC ATTGCACCCG 1920
AGAAGGACCG TGAGCTGGTG GACAGAGGGG AGGTGCGCCA GTTCACGCTC CGCCACTGGC 1980
TCAAGGTGTA GAGGAGCAG AGACGAAGAC CCCAGGAAGT CATCTGCAA TGGGAGAGAC 2040
ACGAACAAAC CAAGGAAATC TAAGTTTCTG GAGAAAGGAG GGCAACTTCT ACTCTTCAAC 2100
CTCTACTGAA AACACAAACA ACAAGCAGA AGACTCTCTT CTTCTGACTG TTTACACCTT 2160
TCGTCGCGGG GAGCGCACCT CGCGGTGTCT TGTGTGCTG TAATAACGAC GTAGATCTGT 2220
GCAGCGAGGT CCAACCCGTT GTTGTCTCTG CAGGGCAGAA AAACGTCTAA CTTTCATGCTG 2280
TCTGTGTGAG GTCCTCTTCC TCCCTGCTCC CTGCTCCGG CTGAGAGGCT GCCCCAGGGG 2340
CACTGTGTTT TCAGCGGGGG ATCAGCATCC TTGTAGACGC ACCTGCTGAG AATCCCCGTG 2400
CTCACAGTAG CTTCTTAGAC CATTACTTCT GCCCATATTA AAAAGCCAAG TGTCTGCTT 2460
GGTTTAGTAG TGCAAGAGGT GAAATGGAGG AAACCAACAA TTCTGCAAA GTCTTTTCCC 2520
GATGCGTGGC TCCAGCAGCA GGCCGTAAT TGAGCGTTCA GTTGACACAT TGACACACA 2580
GCTGTGTGAG AGGCAATTGA GGATGGGGT CCTGGTATGT CTCACAGGA AATTCTGTTT 2640
ATGTTCTTGC AGCAGAGAGA AATAAACTC CTTGAAACCA GCTCAGGCTA CTGCCACTCA 2700
GGCAGCTGT GGGTCTTGT GGTGTAGGGA ACGGCTGAG AGGAGCGTGT CCTATCCCCG 2760
GACGCATGCA GGGCCCCCAC AGGAGCGTGT CCTATCCCCG GACGCATGCA GGGCCCCCAC 2820

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AGGAGCATGT CCTATCCCTG GACGCATGCA GGGCCCCCAG AGGAGCGTGT ACTACCCAG 2880
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TGGAGCGTGT ACTACCCAG GACGCATGCA GGGCCCCCAG AGGAGCGTGT CCTATCCCTG 3000
GACCGGACGC ATGCAGGGCC CCCACAGGAG CGTGTACTAC CCCAGGACGC ATGCAGGGCC 3060
CCCACAGGAG CGTGTACTAC CCCAGGATGC ATGCAGGGCC CCCACAGGAG CGTGTACTAC 3120
CCCAGGACGC ATGCAGGGCC CCCATGCAGG CAGCCTGCAG ACCAACACTC TGCCTGGCCT 3180
TGAGCCGTGA CCTCCAGGAA GGGACCCAC TGGAAATTTA TTTCTCTCAG GTGCGTGCCA 3240
CATCAATAAC AACAGTITTT ATGTTTTCGA ATGGCTTTT AAAATCATAT TTACCTGTGA 3300
ATCAAAACAA ATCAAGAAT GCAGTATCCG CGAGCTGTCT TGCTGATATT GCAGTITTTG 3360
TTTACAAGAA TAATTAGCAA TACTGAGTGA AGGATGTGG CCAAAAGCTG CTTTCCATGG 3420
CACACTGCCC TCTGCCACTG ACAGGAAAGT GGATGCCATA GTTTGAATTC ATGCTCAAG 3480
TGGGTGGGCC TGCTACGTG CTGCCGAGG GCAGGGGCGG TGCAGGGCCA GTCATGGCTG 3540
TCCCCTGCAA GTGGACGTGG GCTCCAGGGA CTGGAGTGA ATGCTCGGTG GGAGCCGTCA 3600
GCTGTGAAC TGCCAGGCAG CTGCAGTTAG CACAGAGGAT GGCTTCCCCA TTGCTTCTG 3660
GGGAGGGACA CAGAGGACGG CTTCCCATC GCCTTCTGGC CGCTGCAGTC AGCACAGAGA 3720
CGCGCTTCCC CATTGCCCTT TGGGGAGGGA CACAGAGGAC AGTTTCCCCA TCGCTTCTG 3780
GTTGTGAAG ACAGCACAGA GAGCGGCTTC CCCATCGCCT TCTGGGAGG GGCTCCGTGT 3840
AGCAACCCAG GTGTTGTCCG TGCTGTGGA CCAATCTCTA TTCAGCATCG TGTGGGTCCC 3900
TAAGCACAAT AAAAGACATC CACAATGGAA AAAAAAAG GAATTC

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Seq ID NO: 304 Protein sequence
Protein Accession #: NP_001035.1

25
30
35

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1 11 21 31 41 51
| | | | |
MSKSKCSVGL MSSVVAPEKE PNAVGPKEVE LILVKEQNGV QLTSSLTNP RQSPVEAQDR 60
ETWGGKIDFL LSVIGFAVDL ANVWRFVYLC YKNGGAFVL PYLLFMVIAG MPLEFYMELAL 120
GQFNREGAAG VWKICPIKLG VGFTVILISL YVGFYFNVII AMALHYLFSS FTTELPMIHC 180
NNSWNSPNCS DAHPDSSDGG SSGINDTFGT TPAEYFERG VLHLQSHQGI DDLQPPRWQL 240
TACLVLVIVL LYFSLWKGVK TSGKVWVITA TMPYVVLTA LRGVTLPGA IDGIRAYLSV 300
DFYRLCEASV WIDAATQVCF SLGVGFGLVI AFSSYNKFTN NCRDAIVTT SINSLSFSFS 360
GFVVFSEFLGY MAQKHSVPIG DVAKDGPGLI FIIYPEAIAT LPLSSAWAVV FFIIMLLTLGI 420
DSAMGMESV ITGLIDEPQL LHRHRELFTL FIVLATPLLS LFCVTNGGIY VFTLLDHFAA 480
GTSILFGVLI EAIGVAFPYG VGQFSDDIQO MTGQRPSLYW RLCWKLVSFC PLLFVVVSI 540
VTFRPFHYGA YIFPDWANAL GWVIATSSNA MVPIIYAAYKF CSLPGSFREK LAYAIAPKED 600
RELVDRGVVR QFTLRHVLKV

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Seq ID NO: 305 DNA sequence
Nucleic Acid Accession #: NM_001216.1
Coding sequence: 43..1422

40
45
50
55
60
65
70

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1 11 21 31 41 51
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AGCCCCCTGGC TCCTCTCTGT GATCCCGGCC CCTGCTCCAG GCCTCACTGT GCAACTGCTG 120
CTGTCACTGC TGCTTCTGAT GCCTGTCCAT CCCACAGAGT TGCCCCGGAT GCAGGAGGAT 180
TCCCCCTTGG GAGGAGGCTC TTCTGGGGAA GATGACCCAC TGGCCGAGGA GGATCTGCCC 240
AGTGAAGAGG ATTACCCAG AGAGGAGGAT CCACCCGAG AGGAGGATCT ACCTGGAGAG 300
GAGGATCTAC CTGGAGAGGA GGATCTACCT GAAGTTAAGC TAAATCAGA AGAAGAGGGC 360
TCCTGAAAT TAGAGGATCT ACCTACTGT GAGGCTCCTG GAGATCCTCA AGAACCCAG 420
AATAATGCCC ACAGGGACAA AGAAGGGGAT GACCAGATC ATTGGGCTA TGGAGGCGAC 480
CCGCCCTGGC CCGGGGTGTC CCCAGCCTGC CGCGGCGGCT TCCAGTCCCC GGTGGATATC 540
CGCCCCCAGC TCBCGCCCTT CTGCCCGGCC CTGGGCCCCC TGGAACTCCT GGGCTTCCAG 600
CTCCCGCCGC TCCAGAACTC GCGCCTGCGC AACAAATGCC ACAGTGTGCA ACTGACCTG 660
CCTCCTGGGC TAGAGATGGC TCTGGGTCCC GGGGGGAGT ACCGGGCTCT GCAGCTGCAT 720
CTGCATGGG GGGCTCGAGG TCGTCCGGGC TCGGAGCACA CTGTGAAGG CACCGTTTC 780
CCTGCCGAGA TCCACGTGCT TCACCTCAGC ACCGCTTTG CCAGATTTGA CGAGGCCTTG 840
GGGCGCCCGG GAGGCTTGGC CGTGTGGGCC GCCTTCTCG AGGAGGGCCC GGAAGAAAAC 900
AGTGCTATG AGCAGTTGCT GTCTCGCTTG GAAGAAATCG CTGAGGAAGG CTCAGAGACT 960
CAGGTCCAGC GACTGACAT ATCTGCACTC CTGCCCTCG ACTTCAGCCG CTACTTCCAA 1020
TATGAGGGGT CTCTGACTAC ACCGCCCTGT GCCCAGGGTG TCATCTGGAC TGTGTTTAA 1080
CAGACAGTGA TGCTGAGTGC TAAGCAGCTC CACACCCCT CTGACACCC CTGGGGACCT 1140
GGTGACTCTC GGCTACAGCT GAACTTCCGA GCGACGCAGC CTTTGAATGG GCGAGTGATT 1200
GAGGCTCTCT TCCTGTCTGG AGTGGACAGC AGTCTCTGG CTGCTGAGCC AGTCCAGCTG 1260
AATTCTGCG TGCTGCTGG TGACATCCTA GCCCTGTTT TTGGCCTCCT TTTTGTCTG 1320
ACCAGCGTCG GTTCTCTTGT GCAGATGAGA AGGCAGCACA GAAGGGGAAC CAAAGGGGGT 1380
GTGAGCTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT AGAGGCTGGA TCTTGAGAA 1440
TGTGAGAAGC CAGCCAGAGG CATCTGAGG GAGCGCGGTA ACTGTCTCTG CTGCTCATT 1500
ATGCCACTTC CTTTAACTG CCAAGAAATT TTTTAAATA AATATTTATA AT

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Seq ID NO: 306 Protein sequence
Protein Accession #: NP_001207.1

75
80

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1 11 21 31 41 51
| | | | |
MAPLCPSFWL PLLIPAPAPG LTVQLLSLL LMPVHPQRL PRMQEDSPLG GSSGGEDDFL 60
GEEDLPSEED SPREEDPPGE EDLPGEEDLP GEEDLPEVKP KSEBEGSLKL EDLFTVEAPG 120
DPQEPQNAH RDKEGDDQSH WRYGGDPPWP RVSPACAGRF QSPVDIRPQL AAPCPALRPL 180
ELLGFQLPPL PELRLRNNGH SVQLTLPPGL EMALGPGRFY RALQLHLHWG AAGRPGSEHT 240
VEGHRFPAEI HVVHLSTAFR RVDEALGRPG GLAVLAAPLE EGPEENSAYE QLSRLLEEIA 300
EGSETQVPG LDISALLPSD PSRYFOYEGS LITPPCAQGV INTVFNQTM LSAKQLHTLS 360
DTLWGPQDSR LQINFRATQP LNGRVIEASF PAGVDSPPRA AEPVQLNSCL AAGDILALVF 420
GLLFAVTSVA FLVQMRQRH RGTGGVSYR PAEVAETGA

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Seq ID NO: 307 DNA sequence
Nucleic Acid Accession #: NM_003039.1
Coding sequence: 76..1581

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5      1      11      21      31      41      51
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CCTTCCAGAG CAAGCATGGA GCAACAGGAT CAGAGCATGA AGGAAGGGAG GCTGACGCTT 120
GTGCTTGCCC TGGCAACCCCT GATAGCTGCC TTGGGTGCAT CCTTCCAGTA TGGGTACAAC 180
10    GTGGCTGCTG TCACTCCTCC AGCACTGTCT ATGCAACAAT TTTACAATGA GACTTACTAT 240
GGTAGGACCG GTGAATTCAT GGAAGACTTC CCCTTGACGT TGCTGTGGTC TGTAAACCGTG 300
TCCATGTTTC CATTGGGAGG GTTTATCGGA TCCTCTCTGG TCGGCCCTTT GGTGAATAAA 360
TTTGGCAGAA AAGGGGCTTT GCTGTTCAC AACATATTTT CTATCGTGCC TGCATCTCTA 420
ATGGGATGCA CAGAGATCGC CACATCATTT GAGCTTATCA TTATTTCCAG ACTTTTGGTG 480
15    GGAATATGTG CAGGTGTATC TTCCAACGTG GTCCCCATGT ACITAGGGGA GCTGGCCCTT 540
AAAAACCTGC GGGGGGCTCT CGGGGTGCTG CCCAGCTCT TCATCACTGT TGGCATCCTT 600
GTGGCCAGAG TCTTTGGTCT TCGGAATCTC CTTGCAAAAG TAGATGGCTG GCCGATCCTG 660
CTGGGGCTGA CCGGGGCTCC CGCGGCGCTG CAGCTCCTTC TGCTGCCCTT CTTCCTCGAG 720
AGCCCCAGGT CCGCTCTGAT TCAGAAGAAA GACGAAGCGG CCGCCAAGAA AGCCCTACAG 780
20    AGCTGCGCGG GCTGGGACTC TGTGGACAGG GAGGTGGCCG AGATCCGGCA GGAGGATGAG 840
GCAGAGAAGG CCGCGGGCTT CATCTCCGTG CTGAAGCTGT TCGGATGCGC CTCGCTGCGC 900
TGGCAGCTGC TGTCCATCAT CGTCTCATG GCGGGCCAGC AGCTGTGCGG CGTCAACGCT 960
ATCTACTACT ACGCGGACCA GATCTACCTG AGCGCGGCGG TGCCGGAGGA GCACGTGCGAG 1020
TACGTGACGG CCGGACCGGG GCGCGTGAAC GTGGTCATGA CCTTCGCGC CGTGTTCGTG 1080
25    GTGGAGCTCC TGGGTGCGAG GCTGCTGCTG CTGCTGGGCT TCTCCATCTG CCTCATAGCC 1140
TGCTGCGTGC TCACTGCAGC TCTGGCACTG CAGGACACAG TGTCTTGGAT GCCATACATC 1200
AGCATCGTCT GTGTCACTC CTACGTGATA GGACATGCCC TCGGGCCAG TCCCATACCC 1260
GGCTGTGCTA TCACTGAGAT CTTCCTGCAAG TCCTCTGCGC CATCTGCCTT CATGGTGGGG 1320
GGCAGTGTGG ACTGCTCTCT CAACTTCACC GTGGGCTTGA TCTTCCGCTT CATCCAGGAG 1380
30    GGCTCGGCCG GTACAGCTT CATGTCTTTC GCGGTGATCT GCCTCCTCAC CACCATCTAC 1440
ATCTCTTGA TTGTCCCGGA GACCAAGGCC AAGACGTTCA TAGAGATCAA CCAGATTTTC 1500
ACCAAGATGA ATAAGGTGTC TGAAGTGTAC CCGGAAAAGG AGGAAGTCAA AGAGCTTCCA 1560
CCTGTCACTT CGGAACAGTG ACTCTGGAGA GGAAGCCAGT GGAGCTGGTC TGCCAGGGGG 1620
TTCCCATTTT GCTTATTTT TCTGACTTCT AGCTGTCTGT GAATATCCAG AAATAAAACA 1680
35    ACTGTAGTGT GGAATGAGT CCTCATCTCC AGCTCCCCA CCCCAGTGGG AACTGTGCAA 1740
AGGGCTGCTT TGCTGTTCTT GAAGCTGGGC TGTCTCTCTC CATGTTGGCC TGTCAACAGA 1800
CCGAGTCAA TTAACAGCTG GGTCTCTCAC TTTGCTGGTT CAGCCTTCGT GTGGCTCCTG 1860
GTAACTGGC TCCACCTTGA TGGGTCAACC TTTGTGTGGC TCCTGGTAAC ATAACAACA 1920
CAGTTACTAT AGTGGTGAGA TGGGAAGGAA CAAATTTTGC CAGAGAAACT AACTCGGTGG 1980
40    CCCCACAGG TCTTCGGGGG CCATGGGCAT TTGTTAGAG CCAATTCAT CCTCTTACCA 2040
GATCCTTTTC CAGAAATACC TGTCTAGGAA GGTGTGATGT CAGAAACAT GACATCCAGA 2100
AAGCTGAGGA ACAGGTTCTT GTGGAGACAC TGAGTCAGAA TTCTTCATCC AAATATTTT 2160
GTAGTGGAAT AATGGAATTG CTCTGTGTA GTCAATAAAA TGAACCTGAT CACTTTTC

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Seq ID NO: 308 Protein sequence
Protein Accession #: NP_003030.1

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50      1      11      21      31      41      51
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FMEDFPLTLL WSVTVSMPPF GGFIGSLLVG PLVKNFGRKG ALLENNIFSI VPAILMGCSR 120
VATSFELIII SRLLVGICAG VSSNVVPMYL GELAPKNLRG ALGVVPQLFI TVGILVAQIF 180
GLRNLNAND GWPLLGLTG VPAALQLLLL PFFPESPRYL LIQKKDEAAA KRALQTLRGW 240
DSVDREVARI RQEDAEKAA GFISVLKLPF MSLRWQLLS IIVLMGGQQL SGVNAIYYA 300
55    DQIYLSAGVP BEHVQVYTAG TGAENVVMTF CAVFVVELLG RRLLLLLGFS ICLIACCVLT 360
AALALQDTSV WMPYISIVCV ISYVIGHALG PSPIPALLIT EIFLQSSRFS AFMVGGSVHW 420
LSNETVGLIF PFIQEGGLPY SFIVFAVICL LTTIYIFLIV PETKARTPIE INQIFTKMNK 480
VSEVYPEKEE LKELPPVTSE Q

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Seq ID NO: 309 DNA sequence
Nucleic Acid Accession #: NM_001252.1
Coding sequence: 138..719

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65      1      11      21      31      41      51
|      |      |      |      |      |
GGCTGGTCCC CTGACAGGTT GAAGCAAGTA GACGCCAGG AGCCCGGGA GGGGGCTGCA 60
GTTTCCTTCC TTTCTTCTCG GCAGGCTTCC GCGCCCCAT CGCCCTCCT CCGCTAGCGG 120
AGGTGATCGC CGCGGCGATG CCGGAGGAGG GTTCGGGCTG CTGGTGGCG CCGAGGCCCT 180
ATGGGTGCGT CCTGCGGGCT GCTTTGGTCC CATTGGTGC GGGCTTGGTG ATCTGCCTCG 240
70    TGGTGTGAT CCAGCGCTTC GCACAGGCTC AGCAGCAGCT GCGCTCGAG TCACTTGGGT 300
GGGACGTAGC TGAGCTGCAG CTGAATCACA CAGGACCTCA GCAGGACCCC AGGTATACT 360
GGCAGGGGGG CCGAGCACTG GCGCGCTCCT TCCTGCATGG ACCAGAGCTG GACAAGGGGC 420
AGCTACGTAT CCATCGTAT GGCACTACA TGSTACACAT CCAGGTGACG CTGGCCATCT 480
GCTCCTCCAC GACGGCTTCC AGGCACACC CCACACCCT GCGCGTGGGA ATCTGCTCTC 540
75    CCGCTCCCG TAGCATCAGC CTGCTGCGTC TCAGCTTCCA CCAAGGTTGT ACCATTGCT 600
CCCAGCGCCT GACGCCCTG GCCCGAGGGG ACACACTCTG CACCAACCTC ACTGGGACAC 660
TTTTGCTTCC CGAAACACT GATGAGACCT TCTTTGAGT GCAGTGGGTG CCGCCCTGAC 720
CACTGCTGCT GATTAGGTTT TTTAAATTT TATTTTATTT TATTTAAGTT CAAGAGAAAA 780
80    AGTGTACACA CAGGGGCCAC CCGGGGTTGG GGTGGGAGTG TGGTGGGGG TAGTGGTGGC 840
AGGACAAGAG AAGGCATTGA GCTTTTCTT TCATTTCTCT ATTAATAA

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Seq ID NO: 310 Protein sequence
Protein Accession #: NP_001243.1

1 11 21 31 41 51
 5 MPEBSGSCSV RRRPYGCVLR AALVPLVAGL VICLVVCIQR FAQAQQQLPL ESLGWDVABL 60
 QLNHTGPPQD PRLYWQGGPA LGRSFLHGPE LDKGQLRIHR DGIYMHVHQV TLAICSSTTA 120
 SRHHPTTLAV GICSPASRSI SLLRLSPHQG CTIASQLRTP LARGDTLCTN LTGTLLPSRN 180
 TDETFFGVQW VRP

Seq ID NO: 311 DNA sequence

Nucleic Acid Accession #: Eos sequence

Coding sequence: 1..3978

1 11 21 31 41 51
 15 ATGGTGGGTG AAGGACCCTA CCTTATCTCA GATCTGGACC AGCGAGGCCG GCGGAGATCC 60
 TTTGCAGAAA GATATGACCC CAGCCTGAAG ACCATGATCC CAGTGGGACC CTGTGCAAGG 120
 TTAGCACCCA ACCCGGTGGA TGATGCCGGG CTACTCTCCT TCGCCACATT TTCTGGCTC 180
 20 ACGCCGGTGA TGGTGAAAGG CTACCGGCAA AGGCTGACCG TAGACACCCT GCCCCCATTTG 240
 TCGACATATG ACTCATCTGA CACCAATGCC AAAAGATTTC GAGTCCTTTG GGATGAAGAG 300
 GTAGCAAGGG TGGTCTCTGA GAAGGCCCTCT CTGAGCCACG TGGTGTGGAA ATGCCAGAGG 360
 ACACGCGTGT TGATGGACAT CGTGGCCCAAC ATCCTGTGCA TCATCATGGC AGCCATAGGG 420
 CGACAGTTC TCATTACCA AATCCTCCAG CAGACTGAGA GGACCTCTGG AAAAGTCTGG 480
 GTTGGCATTG GACTGTGCAT AGCCCTTTTT GCCACCGAGT TTACCAAAAGT CTTCTTTTGG 540
 GOCCTTGCCCT GGGCCATCAA CTACCGCAGG GCCATCCGGT TGAAGTGGGC GCTCTCCACC 600
 25 TTGTTTGTG AAAAAGCTAGT GTCTTCAAG ACATTGACCC ACATCTCTGT TGGCGAGGTG 660
 CTCAATATAC TGTCAGTGA TAGCTATTCT TTGTTGAAG CTGCTCTGTT TTGCTCTTTG 720
 CCAGCCACCA TCCCGATCCT AATGGTCTTT TGTGCGGGT ACGCCCTTTT CATTCTGGGG 780
 CCCACAGCTC TCATCGGGAT ATCAGTGTAT GTCATATTCA TACCCGTCCA GATGTTTATG 840
 GCCAAGCTCA ATTCAAGCTT CCGAAGGTCA GCAATTTTGG TGACAGACAA GCGAGTTCAG 900
 30 ACAATGTGAG CGAATGCTAG CTGCATCAGG CTGATCAAAA TGTATGCCGT GGAGAAATCT 960
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 TTTGTCCAAA GTGGAAGCTC TGCCCTGGCC CCATCGTGT CCACCATAGC CATCTGCTG 1080
 ACATATATCT GCCACATCCT CCTGAGACGC AAATCACC CGCCCGTGGC ATTTAGTGTG 1140
 ATTGCCATGT TTAATGTAAT GAAGTTTTC ATTGCAATCT TGCCCTTCTC CATCAAGCA 1200
 35 ATGGCTGAAG CGAATGCTCT TCTAAGGAGA ATGAAGAAA TTCTCATAGA TAAAGCCCC 1260
 CCATCTTACA TCACCAACCC AGAAGACCCA GATACTGTCT TGCTTTTAGC AAATGCCACC 1320
 TTGACATGGG AGCATGAAGC CAGCAGGAAA AGTACCCCAA AGAAATTGCA GAACAGAAA 1380
 AGGCATTAT GCAGAAACA GAGGTGAGG GCATACAGT AGAGGAGTCC ACCAGCCAAG 1440
 GGAGCCACTG GCCAGAGGA GCRAAGTGAC AGCCTCAAT CCGTTCGCA CAGCATAAGC 1500
 40 TTTGTGGTGA GAAAGTTATG TCGTTATCCC GAAGCCAGC TCCTGGCTTG GAGGTGGCCA 1560
 CAGATGTTTG TTGGGAGAA CATCAGAGGA TACAGGCCTC ATGGATTTTC TGCTAAGAC 1620
 AAGGATGAAT CTAGAGAGTT TCTTACTTGG CCCAAGAAG TGGATAGGAC TCAAGGGCA 1680
 GCCAATATCC TGGGGAAGAT CTGGGAATA TGTGGGAATG TGGGAAGTGG AAAGAGCTCC 1740
 CTCCTTGACG CTCTCCTAGG ACAGATGCAG CTGCAGAAAG GGGTGGTGGC AGTCAATGGA 1800
 45 ACTTTGGGCT GCATTTTACA GCAGGCATGG ATCTTTTATG GAAATGTGAG AGAAACATA 1860
 CTCTTTGAGG AAAAGTATGA TCACCAAAGG TATCAGCACA CAGTCCGCGT CTGTGGCCTC 1920
 CAGAAGGACC TGAGCAACCT CCCCATGGA GACCTGACTG AGATTGGGGA GCGGGGCTC 1980
 AACCTCTCTG GGGGCGAGG GCAGAGGATT AGCCTGGCCC GCGCTGTCTA CTCGACCGT 2040
 CAGCTCTACC TGCTGGACGA CCCCTGTCTG GCGGTGGAGC CCCAGTGGG GAGCAGCTC 2100
 50 TTTGAGGAGT GCATTAAGAA GACGCTCAGG GGAAGACAG TCGTCTGGT GACCCACCA 2160
 CTACAGTTCT TAGAGTCTTG TGATGAAGTT ATTTTATTAG AAGATGGAGA GATTGTGTA 2220
 AAGGGAAACC ACAGAGAGTT AATGGAGGAG AGAGGGCGCT ATGCAAACT GATTCAAC 2280
 CTGCGAGGAT TGCAGTTCAA GGATCCTGAA CACCTTTACA ATGCAGCAAT GGTGGAAGCC 2340
 TTCAAGGAGA GCCCTGCTGA GAGAGAGGAA GATGCTGGTA TAATCGGGTA CCTCCTTTCT 2400
 55 TCCTTCACTG TGTCTCTCTT CCTCCTGATG ATTGGCAGCG CTGCTCTCAG CAATCGTGG 2460
 CTGGGTCTCT GGTGTGACAA GGGCTCAOGG ATGACCTGTG GGCCCCAGGG CAACAGGACC 2520
 ATGTGTGAGG TCGGCGCGGT GCTGCGAGAC ATCGGTCAGC ATGTGTACCA GTGGGTGTAC 2580
 ACTGCAAGCA TGGTGTTCAT GCTGTTGTTT GGCCTCACCA AAGGCTTCGT CTTCAACAG 2640
 ACCACACTGA TGGCATCTCT CTCTCTGCAT GACACGGTGT TTGATAAGAT CTTAAAGAGC 2700
 60 CCAATGAGTT TCTTTGACAC GACTCCCACT GGCAGGCTAA TGAACCGTTT TTCCAAGGAT 2760
 ATGACAGAGC TGGATGTGAG GCTGCCGTTT CACGACAGGA ACTTCTGCA GCAATTTTTT 2820
 ATGGTGGTGT TTAATCTCGT GATCTTGGCT GCTGTGTTTC CTGCTGTCTT TTTAGTGTG 2880
 GCCAGCCTTG CTGTAGGCTT CTTTATCTTG TTACGCAATT TCCACAGAG AGTCCAGGAG 2940
 CTCAGAAGG TGGAGAAATG CAGCCGGTCA CCTGTGTTCA CCCACATCAC CTCTCCATG 3000
 65 CAGGGCCTGG GCATCATTTA CGCCTATGGC AAGAAGGAGA GCTGCATCAC CTATACTTCA 3060
 TTCCAAGGCC TGTCTATGTC ATACATCATC CAGCTGAGCG GACTGTCTCA AGTGTGTGTG 3120
 CGAACGGGAA CAGAGACGCA AGCCAAATTC ACCTCGTGG AGCTGCTCAG GGAATACATT 3180
 TCGACCTGTG TTCTGAATG CACTCATCCC CTCAAAGTGG GGACCTGTCC CAAGGACTGG 3240
 CCCAGCTGTG GGGAGATCAC CTTGAGAGAC TATCAGATGA GATACAGAGA CAACACCCCC 3300
 70 CTTGTTCTCG ACAGCCTGAA CTTGAACATA CAAAGTGGGC AGACAGTCGG GATTGTTGGA 3360
 AGAACAGGTT CCGGAAAGTC ATCGTTAGGA ATGGCTTTGT TTCGTCTGGT GGAGCCAGCC 3420
 AGTGGCACAA TCTTTATTGA TGAGGTGGAT ATCTGCATT TCAGCTTGA AGACCTCAGA 3480
 ACCAAGCTGA CTGTGATCCC ACAGSATCCT GTCTCTGTTG TAGGTACAGT AAGGTACAAC 3540
 TTGGATCCCT TTGAGAGTCA CACGATGAG ATGCTCTGGC AGGTTCCTGA GAGAACATT 3600
 75 ATGAGAGACA CAATAATGAA ACTCCAGAA AAATTACAG CAGAAGTCAC AGAAATGGA 3660
 GAAACTCTCT CAGTAGGGGA ACGTCAGCTG CTTTGTGTGG CCCGAGCTCT TCTCCGTAAT 3720
 TCAAAGATCA TTCTCTCTGA TGAAGCCACC GCCTCTATGG ACTCCAAGC TGACAACCTG 3780
 GTTCAGAAC CAATCAAGA TGCCTTCAAG GCGTGCACCT TGCTGACCAT GCGCCACCGC 3840
 CTCACACAG TTCTCAACTG CGATCAGCTC CTGGTTATGG AAAATGGGAA GGTGATTGAG 3900
 80 TTTGACAGC CTGAAGTCTT TGCAGAGAAG CCAGATTCTG CATTGCGAT GTTACTAGCA 3960
 GCAGAAATCA GATTGTAG

Seq ID NO: 312 Protein sequence

Protein Accession #: Eos sequence

1 11 21 31 41 51
MVGEQPYLIS DLDQGRRRS FAERYDPSLK TMIPVRPCAR LAFNPVDDAG LLSFATFSWL 60
TPVMVKGYSR RLTVDTLPLP STYDSSDTNA KRFRVLWDEE VARVGPEKAS LSHVVMKFPQ 120
5 TRVLMDIVAN ILCIIMAAIG PTVLIHQILQ QTERTSGKVM VGIGLCIALP ATEFTKVFPW 180
ALAWAINYRT AIRLKVALLST LVFENLVSEK TLTHISVGEV LNILSSDSYS LFEAALFCPL 240
PATIPIILMV CAAYAFFILG PTALIGISVY VIFIPVQMF AKLSAFRRS AILVTDKRVQ 300
TMNEFLTCIR LIKMYAWEKS FTNTIQDIRR RERKLEKAG FVQSGNSALA PIVSTIAIVL 360
10 TLSCHILLRR KLTAPVAFSV IAMFNVMKFS IAILPFSIKA MAEANVSLRR MKKILIDKSP 420
PSYITQPEDP DTVLLLANAT LTWEHEASRK STPKKLQNKQ RHLCKKQSE AYSESPPPAK 480
GATGPEQSD SLKSVLHSLF FVVRKLCRYP EAQLLAWRWP AVFVGRIIRG YRPHGFSADK 540
KDESRRLTW PQEVDRTRQA AKYLKGILGI CGNVSGSKSS LLAALLGQM LQKGVVAVNG 600
TLAYVQQAW IFHGNVRENI LFGEKYDHR YQHTVRVCG LKDLNLPGY DLTEIGERGL 660
15 NLSSGQQRRI SLARAVYSR QLYLLDDPLS AVDAHVGKHV FECCIKKTLR GKTVVLVTHQ 720
LQFLESCEV ILLEDEICE KGTHELMEE RGRYAKLIHN LRGLQFKDPE HLYNAAMVEA 780
FKESPAEREE DAGIIGYLLS LFTVFLFLM IGSAAFSNWM LGLWLDKGSR MTCGPQGNRT 840
MCEVGAVLAD IGQHYVQVY TASMVFLVF GVTKGFPVTK TTLMASSSLH DTVFDKILKS 900
PMSFFDTTPT GRIMNRFSKD MDLDRVLPF HAENFLQPF MVVFIIVILA AVFFAVLLV 960
20 ASLAVGQFRI LRIHRRGVE LKVENVSRS PWFTHITSSM QGLGIIHAYG KKECITYTS 1020
SKGLSLSYII QLSGLLQVCV RTGTETQAKF TSVELLREYI STCVPECTHP LKVGTCPKDW 1080
PSCGIBITRD YQMRVLDNTP LVLDLNLNI QSGQTVGIVG RTGSGKSLG MALFRLVEPA 1140
SGTIFIDEVD ICILSLEDLR TKLTVIPQDP VLFVGTVRYN LDPEFSTHDE MLWQVLERTF 1200
MRDTIMKLEP KQAEVTEENG ENFSVGERQL LCVARALLRN SKIILLDEAT ASMSKTDTL 1260
25 VQNTTKDAFK GCTVLTIAHR LNTVLNCDHV LVMENGVIE FDKPEVLAEK PDSAFAMLLA 1320
AEVRL

Seq ID NO: 313 DNA sequence
Nucleic Acid Accession #: Z31560
Coding sequence: 1-966

1 11 21 31 41 51
CACAGCGCCC GCATGTACAA CATGATGGAG ACGGAGCTGA AGCGCGCGGG CCCGACAGCA 60
35 ACTTCGGGGG CGCGCGCGCG CAACTCCACC GCGCGCGCGG CCGCGCGCAA CCAGAAAAAC 120
AGCCCGGACC CGCTCAAGCG GCCCATGAAT GCCTTCATGG TGTGGTCCCG CGGCGAGCGG 180
CGCAAGATGG CCCAGAGAGA CCCCAAGATG CACAACCTCG AGATCAGCAA GCGCTGGGG 240
GCGAGTGGAA AACTTTTGTC GGAGACGGAG AAGCGGCGGT TCATGACGAA GGCTAAGCGG 300
CTGCGAGCGC TGACATGAA GGAGACCCG GATTATAAAT ACCGCGCCCG GCGGAAAAAC 360
40 AAGACGCTCA TGAGAGAGGA TAAGTACAG CTGCGCGCGG GCTGCTGGC CCGCGCGCGG 420
AATAGCATGG CGAGCGGGGT CGGGGTGGGG GCCGCGCTGG GCGCGGCGT GAAACGAGCG 480
ATGGACAGTT ACGCGCACAT GAACGGCTGG AGCAACGGCA GCTACAGCAT GATGCAGGAC 540
CAGCTGGGCT ACCCGCAGCA CCCGGGCTCT AATGCGCAGC GCGCAGCGCA GATGCAGCCC 600
ATGCACCGCT ACAGCGTGAG CGCCCTGCAG TACAACTCCA TGACACGCTC GCAGACCTAC 660
45 ATGAACGGCT CGCCACCTTA CAGCATGTCC TACTCGCAGC AGGGCACCCT TGGCATGGCT 720
CTTGGCTCCA TGGGTTCGGT GGTCAAGTCC GAGGCGAGCT CCAGCCCCCT TGTGGTTACC 780
TCTTCTCTCC ACTCCAGGGG GCGCTGCCAG GCGGGGACC TCCGGACAT GATCAGCATG 840
TATCTCCCGG GCGCCGAGGT GCGGGAACCC GCGGCCCCCA GCAGACTTCA CATGTCCAG 900
CACTACCAGA GCGGCGCGGT GCGGCGCAGC GCCATTACG GCACACTGCC CCTCTCACAC 960
50 ATGTGAGGGC CGGACAGCGA ACTGGAGGGG GGAGAAATTT TCAAGAAAAA ACGAGGGAAA 1020
TGGGAGGGGT GCAAAGAGAG AGAGTAAGAA ACAGCATGGA GAAAACCCGG TACGCTCAAA 1080
AAAAA

Seq ID NO: 314 Protein sequence
Protein Accession #: CAA83435

1 11 21 31 41 51
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60 RIMAQENPKM HNSEISKRLG AEWKLLSETE KRPFIDEAKR LRALEHMEHP DYKYRPRRKT 120
KTLMKDKYLT LPGAALAPGG NSMAGSVGVG AGLGAGVNR MDSYAHMNGW SNGSYMMQD 180
QLGYPQHPGL NAHGAQMOP MHRYDVSLQ YNSMTSSQTY MNGSPYMS YSQGTGPGMA 240
LGSMSVVKSS EASSPPVVT SSSHSRAPCQ AGDLRDMISM YLPGAEPPEP AAPSRILHMSQ 300
HYQSGPVPET AINGTLPLSH M

Seq ID NO: 315 DNA sequence
Nucleic Acid Accession #: U91618
Coding sequence: 29..541

1 11 21 31 41 51
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70 CATGCTACTC CTGGCTTTCA GCTCCTGGAG TCTGTGCTCA GATTACAGAG AGGAAATGAA 120
AGCATTAGAA GCAGATTCTT TGACCAATAT GCATACATCA AAGATTAGTA AAGCACATGT 180
TCCCTCTTGG AAGATGACTC TGCTAAATGT TTGCAGTCTT GTAAATAATT TGAACAGCCC 240
75 AGCTGAGGAA ACAGAGAGAG TTCATGAAGA GGAGCTTGT GCAAGAAGGA AACTTCTTAC 300
TGCTTTAGAT GCTTTAGCT TGAAGCAAT GTTGACAATA TACCAGTCC ACAAATCTG 360
TCACAGCAGG GCTTTTCACT ACTGGGAGTT AATCCAGGAA GATATCTTGT ATACTGGAAA 420
TGACAAAAAT GGAAAGGAAG AAGTCATAAA GAGAAAAATT CCTTATATTC TGAAACGGCA 480
80 GCTGTATGAG AATAAACCCA GAAGACCTTA CATACTCAA AGAGATTCTT ACTATTACTG 540
AGAGATATAA TCATTATATT ACATGTGATT GTGATTCATC ATCCCTTAAT TAAATATCAA 600
ATTATATTTG TGTGAAAAAT TGACAAACAC ACTTATCTGT CTCTTCTACA ATTGTGGTTT 660
ATTGAATGTG TTTTCTGCA CTAATAGAAA TTAGACTAAG TGTTTTCAAA TAAATCTAAA 720
TCTTCAAAA AAAAAAAAAA AATGGGGCC GCATT

Seq ID NO: 316 Protein sequence
Protein Accession #: AAB50564

5 1 11 21 31 41 51
MMAGMKIQLV CMLLLAFSSW SLCSDSSEEM KALEADFLTN MHTSKISKAH VPSWKMTLLN 60
VCSLVNNLNS PAEBTGEVHE EELVARRKLP TALDGFSLA MLTIYQLHKI CHSRAFQHWE 120
LIQEDILDG NDKNGKEEVI KRKIPYILKR QLYBNKPRRP YILKRDSYYY

10 Seq ID NO: 317 DNA sequence
Nucleic Acid Accession #: NM_006536.2
Coding sequence: 109..2940

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AGCATTGCAG GTCCATTATT CAACCTGAAG TTTGTGACTC TCCTGGTTCG CTTAAGTTCA 180
GAACCTCCAT TCCTGGGAGC TGGAGTACAG CTTCAAGACA ATGGGTATAA TGGATTGCTC 240
20 ATTGCAATTA ATCTCAGGT ACCTGAGAAT CAGAACCTCA TCTCAAACAT TAAGGAAATG 300
ATAACTGAAG CTTCAATTTA CCTATTTAAT GCTACCAAGA GAAGAGTATT TTTCAAGAA 360
ATAAAGATT TAATACCTGC CACATGGAAA GCTAATAATA ACAGCAAAAT AAAACAAGAA 420
TCATATGAAA AGGCAAAATG CATAGTGACT GACTGGTATG GGGCAGATGG AGATGATCCA 480
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25 TTCCTACTGA ATGATAACTT AACAGCTGGC TACGGATCAC GAGGCCGAGT GTTTGTCCAT 600
GAATGGGCCC ACCTCCGTTG GGGTGTGTTT GATGAGTATA ACAATGACAA ACCTTCTCAT 660
ATAAATGGGC AAAATCAAAAT TAAAGTGACA AGGTGTTTCT CTGACATCAC AGGCATTTT 720
GTGTGTGAAA AAGGTCCCTG CCCCAGAGAA AACTGTATTA TTAGTAAGCT TTTTAAAGAA 780
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30 AGTTTATCTT CTGTGGTGA ATTTTGTAA GCAAGTACCC ACAACCAAGA AGCACCAAC 900
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TTTCACCAAC GCTTTCCCAT GAATGGGACT GAGCTTCCAC CTCCTCCAC ATTCTCGCTT 1020
GTACAGGCTG GTGACAAAGT GGTCTGTTTA GTGCTGGATG TGTCCAGCAA GATGGCAGAG 1080
GCTGACAGAC TCCTTCACT ACACCAAGCC GCAGAAATTT ATTTGATGCA GATTGTTGAA 1140
35 ATTCATACCT TCGTGGGCAT TGCCAGTTTC GACAGCAAG GAGAGATCAG AGCCACGCTA 1200
CACCATAAT ACAGCAATGA TGATCGAAG TGTCTGGTTT CATATCTGCC CACCACTGTA 1260
TCAGCTAAGA CAGACATCAG CATTTGTTCA GGGCTTAAGA AAGGATTGGA GGTGGTTGAA 1320
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CTTCTTGCA ATTGCTTACC CACTGTGCTC AGCAGTGGTT CAACAATTCA CTCCATTGCC 1440
40 CTGGGTTTCA CTGCAGCCCC AAATCTGGAG GAATTATCAC GTCTTACAG AGGTTTAAAG 1500
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TCTGGAACCT GAGACATTTT CCAGCAACAT ATTCTAGCTG AAGTACAGG TGAAATATGC 1620
AAACCTCACC ATCAATTGAA AAACACAGTG ACTGTGGATA ATACTGTGGG CAACGACACT 1680
ATGTTTCTAG TTACGTGGCA GGCAGTGGT CCTCTGAGA TTATATTATT TGATCTGAT 1740
45 GGAAGAAAT ACTACACAAA TAATTTTATC ACCAATCTAA CTTTTCGAG AGCTAGTCTT 1800
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TCTCTGCAAG CCTGAAAGT GACAGTGACC TCTCGCGCCT CCAACTCAGC TGTGCCCCCA 1920
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TATGCCAATG TGAACAGGG ATTTTATCCC ATTTCTAATG CCACTGTGAC TGCCACAGTT 2040
50 GAGCCAGAGA CTGGAGATCC TGTACGCTG AGACTCCTG ATGATGGAGC AGGTGCTGAT 2100
GTATATAAAA ATGATGGAAT TTACTCGAGG TATTTTCTCT CCTTTGCTGC AAATGGTAGA 2160
TATAGCTTGA AAGTGATGT CAATCACTCT CCCAGCATAA GCACCCAGC CCACTCTATT 2220
CCAGGGAGTC ATGCTATGTA TGTACAGGT TACACAGCAA ACGTAATAT TCAGATGAAT 2280
GCTCCAAGGA AATCAGTAGG CAGAAATGAG GAGGAGCGAA AGTGGGGCTT TAGCCGAGTC 2340
55 AGCTCAGGAG GCTCCTTTTC AGTGTGCGGA GTTCCAGCTG GCCCCACCC TGATGTGTTT 2400
CCACCATGCA AAATATTGTA CCTGGAAGCT GTAAAAGTAG AAGAGGAATT GACCCATCT 2460
TGGACAGCAC CTGGAGAAGA CTTTGATCAG GGCCAGGCTA CAAGCTATGA AATAAGAAAT 2520
AGTAAAGATC TACAGATAT CCAAGATGAC TTTAACAATG CTATTTTATG AAATACATCA 2580
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60 ACGAATGGAC CTGAACATCA GCCAAATGGA GAAACACATG AAAGCCACAG AATTATGTT 2700
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CCTCTGTTTA TTCCCCCAA TTCTGATCCT GTACCTGCCA GAGATTATCT TATATTGAAA 2820
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65 CATACTTTAA GCAGGAAAAA GAGAGCAGAC AAGAAAGAGA ATGGAACAAA ATTATTATAA 2940
ATAAATATCC AAAGTGCTT CCTCTTAGA TATAAGACCC ATGGCCTTCG ACTACAAAA 3000
CATACTAACA AAGTCAAATT AACATCAAAA CTGTATTAAA ATGCATTGAG TTTTGTGACA 3060
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CCTTACACTT TGGCTATGAA CAAATAATAA AAATTATTCT TTAAGTAAT GTCTTTAAAG 3180
70 GCAAAGGGAA GGGTAAAGT GACCAAGTGT CAAGGAAAGT TTGTTTATT GAGGTGGAAA 3240
AATAGCCCCA AGCAGAGAAA AGGAGGGTAG GTCTGCATTA TAACGTGCTG TGTGAAGCAA 3300
TCATTAGTT ACTTTGATTA ATTTTCTTT TCTCCTTATC TGTGAGTAC AGGTGCTTG 3360
TTTACATGAA GATCATGCTA TATTTTATAT ATGTAGCCCC TAATGCAAG CTCTTACCT 3420
CTTGCTATTT TGTATATAT ATTTAGATG ACATCTCCCT GCTAATGCTC AGAGATCTTT 3480
75 TTTCACTGTA AGAGGTAACC TTTAACAATA TGGGTATTAC CTTTGTCTCT TCATACCGGT 3540
TTTATGACAA AGGTCTATTG AATTATTG TGTGTAAGT TCTACTCCCA TCAAGCAGC 3600
TTCTAAGTT TATGCTCTG GGTATTATG GAATGATAGT TATAGCCCN TATAATGCCT 3660
TACCTAGGAA A

80 Seq ID NO: 318 Protein sequence
Protein Accession #: NP_006527.1

1 11 21 31 41 51
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 GDDPYTLQYR GCGKEGYIYH FTFNELLNDN LTAGYGSRRG VVHEWAHLR NGVDFEYNN 180
 KPFFYINGQNO IKVTRCSSDI TGIFVCEKGP CPQENCIISK LFKEGCTFIY NSTQNTASI 240
 MFMSQLSSVV EFCNASTHNO EAPNLQNMCM SLRSADWDVIT DSADFHHSFP MNGTELPPPP 300
 5 TFSLVQAGDK VVCLVLVDVSS KMAEADRLLO LQQAEEFVLM QIVEIHTFVG IASFDKSGEI 360
 RAQLHQINSN DDRKLLVSYL PTTVSAKTDI SICSGLKKGP EVVEKLNGKA YGSVMILVTS 420
 GDDKLLGNCL PTVLSSGSTI HSIALGSSAA PNLEELSLRT GGLKFFVPDI SNSNSMIDAF 480
 SRISSTGDI FQHQIQLST GENVKPHQL KNTVTVDNTV GNDTMPLVTM QASGPPPIIL 540
 10 FDPDGRKYIT NNFITNLTFR TASLWIPGTA KPGHWITYTLN NTHSLQALK VTVTSRASNS 600
 AVPPATVEAF VERDSLHFFH PVMYIANVKQ GFYFILNATV TATVEPETGD PVTLLRLDDG 660
 AGADVINKDG IYSRYFFSFA ANGRYSLKVH VNHSPSISTP AHSIPGSHAM YVPGYTANGN 720
 IQMNAPRKSV GRNEERKKG FSRVSSGGSF SVLGVPAGPH PDVFPCKII DLEAVKVEBE 780
 LTLSTWAPGE DFDQQAQTSY EIRMSKSLQN IQDDFNAIL VNTSKRNPQQ AGIREIPTFS 840
 15 PQISTNGPEH QPNGETHESH RIYVAIRAMD RNSLQSAVSN IAQAPLFIPP NSDPVPARDY 900
 LILKGVLTAM GLIGIICLI VVTHHTLSRK KRADKKENG KLL

Seq ID NO: 319 DNA sequence
 Nucleic Acid Accession #: NM_000228.1
 Coding sequence: 82..3600

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 TCTGTGCGGA GGACCCGGTT TCTCCGAGCT TCATCTACCT GTGGACTGAC CAAGCCTGAG 240
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 30 TTCCAGCTTC AAGAAGTCAT GATGGAGTTC CAGGGGCCA TGCCCGCGG CATGCTGATT 480
 GAGCGCTCCT CAGACTTCGG TAAGACCTGG CGAGTGTACC AGTACCTGGC TGCCGACTGC 540
 ACCTCCACCT TCCTCGGGT CCGCCAGGGT CGGCCTCAGA GCTGGCAGGA TGTTCGGTGC 600
 CAGTCCCTGC CTGAGAGGCC TAATGCACGC CTAAATGGGG GGAAGGTCCA ACTTAACTT 660
 35 ATGGATTAG TGTCTGGGAT TCCAGCAACT CAAAGTCAAA AAATTCAGA GGTGGGGGAG 720
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 CCTCCAGCG CCTACTATGC TGTGTCCAG CTCGCTCTGC AGGGGAGCTG CTTCTGTAC 840
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 40 GCACCCCTT ACAACAACG GCCCTGGAGA CCGCGGAGG GCCAGGACG CCATGAATGC 1020
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 45 CCACTGACG GCGAGTGTG GTGCAAGGAG CATGTGCAAG GAGAGCGCTG TGACCTATGC 1320
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 50 CAACAGTTC ACAGGGCAGT GCCCTGTGG GAAGGCTTTG GTGGCTGAT GTGCAGCGCT 1620
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 55 GAGCAGGCC TGCGCTTGG TAGACTCCG AATGCCACG CCAGCCTGT GTGAGGCTCT 1920
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 60 ACTATGTATC AGAGAAGAG GGAGCAGTTT GAAAAAATAA GCAGTGTGA TCCTTCAGGA 2220
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 65 ATGCTTGCA CCCCAATATC ATGCCCTGGT GAGCTATGTC CCCAAGACAA TGGCAGAGC 2520
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 75 CTGCAAGAG CTCTGAGAC CATGCAAGGC ACCAGCGCT CCTTGGGCT TATCCAGGAC 3120
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 GGGACAGTTA CACTTGACAG ACAAGATGG TGGAGATTGG CATGCCATTG AAACCTAAGAG 3840
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Seq ID NO: 320 Protein sequence
 Protein Accession #: NP_000219.1

10 1 11 21 31 41 51
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 15 NARLNGKQVQ LNLMDLVSGI PATQSQKIQE VGEITNLRVN FTRLAPVPQR GYHPFSAYYA 240
 VSQRLQGGSC FCHGHADRC A PKPGASAGPS TAVQVHDVCV CQHNATAGFNC ERCAFFYNRR 300
 PWRPAEQQDA HECQRCDGNG HSETCHFDPA VFAASQGAAYG GVCNDCRDHT EGKNCERCQL 360
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 20 TYANPQGCRR CDNIIIGSRR DMPDCEESGR CLCLPNVVGK KCDQCAPYHW KLASGQCEP 480
 CACDPHNSPQ PTQVPVHRAV PCREGFGLGM CSAAIRQCP DRTYGDVATG CRACDCDFRG 540
 TEGFGQDKAS GRCLCRPGLT GPRCDQCORG YCNRYPVCAV CHPCFTYDA DLREQALRFG 600
 RLRNATASLW SGPGLDRGL ASRILDAKSK IEQIRAVLSS PAVTEQEVQV VASAILSLRR 660
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 25 AYEQSAQAQ QVESSSRLLD QLRDSRREAE RLVQAGGGG GTGSPKLVAL RLEMSLSPLD 780
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 DPDTDAATIQ EVSEAVLALW LPTDSATVLO KMNEIQAIQA RLPNVDLVLS QTKQDIARAR 960
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 30 VLRPAEKLRV SMTQLGDFW TRMEELRHQA RQQAEEAVQA QQLAEGASEQ ALSAQEGFER 1080
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 MLRSADLTGL EKRVEQIRDH INGRVLYYAT CK

Seq ID NO: 321 DNA sequence
 Nucleic Acid Accession #: NM_001944.1
 Coding sequence: 84..3083

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 ATGATGAAGA AGAGATGACT ATGCAACAAG CTAAAAGGAG GCAAAAACGT GAATGGGTGA 240
 AATTTCGCAA ACCCTGCAGA GAAGGAGGAG ATAACTCAA AAGAAACCCA ATTGCCAAGA 300
 45 TTACTTCAGA TTACCAAGCA ACCCAGAAAA TCACCTACCG AATCTCTGGA GTGGGAATCG 360
 ATCAGCGCGC TTTTGGAAATC TTTGTTGTTG ACAAACACAC TGGAGATATT AACATAACAG 420
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 Protein Accession #: NP_001935.1

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80 Seq ID NO: 325 DNA sequence
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Seq ID NO: 327 DNA sequence
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Seq ID NO: 332 Protein sequence
 Protein Accession #: NP_004354.1

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 TISPLNTSYR SGENMLNSCH AASNPAPQYS WFNVTGTFQS TQELFIPNIT VNNSGSYTCQ 300
 AHNSDTGLNR TTTTITTVYA EPPKPFITSN NSNPEVEDA VALTCBPEIQ NTYLWVWVN 360
 QSLFVSPRLQ LSNDRNLTLL LSVTRNDVGP YECGIQNELS VDESDPVILN VLYGPDPTI 420
 SPSYTYRPG VNLSLSCHAA SNPPAQYSWL IDGNIQHTQ ELFIENITEK NSGLYTCQAN 480
 NSASGHSRT VKTITVSAEL PKPSISSNNS KPVEDKDAVA FTCEPEAQNT TYLWVWNGQS 540
 LPVSPRLQLS NGNRTLTLEN VTRNDARAYV CGIQNSVSAN RSDPVTLDLV YGPDTPIIIS 600
 PDSSVLSGAN LNLSCHSASN PSPQYSWRIN GIPQOHTQVL FIAKITFMNN GTYACFVSNL 660
 ATGRNNSIVK SITVSASGTS PGLSAGATVG IMIGVLVGVA LI

Seq ID NO: 333 DNA sequence
 Nucleic Acid Accession #: NM_006952.1
 Coding sequence: 11..793

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1 11 21 31 41 51
 AATCCCGACA ATGGCGAAAG ACAACTCAAC TGTTCGTGTC TTCCAGGGCC TGCTGATTTT 60
 TGGAAATGTG ATTATGGTT GTTGGCGCAT TGCCCTGACT GCGGAGTGCA TCTTCTTTGT 120
 ATCTGACCAA CACAGCTCTT ACCCACTGCT TGAAGCCACC GACAAAGATG ACATCTATGG 180
 GGCTGCCTGG ATCGGCATAT TTGTGGGCAT CTGCCTCTTC TGCCCTGCTG TTCTAGGCAT 240
 TGTAGGCATC ATGAAGTCCA GCAGGAAAAA TCTTCTGGCG TATTTTCATTC TGATGTTTAT 300
 AGTATATGCC TTGAAGTGG CATCTGTAT CACAGCAGCA ACACAAAGAG ACTTTTTCAC 360
 ACCCAACCTC TTCTCTGAAGC AGATGCTAGA GAGGTACCAA AACACAGGCC TCCCAACAA 420
 TGATGACCAG TGGAAAAACA ATGGAGTCAC CAAACCTGG GACAGGCTCA TGCTCCAGGA 480
 CAATTGCTGT GGGCTAAATG GTCCATCAGA CTGGCAAAAA TACACATCTG CCTTCCGGAC 540
 TGAGAATAAT GATGCTGACT ATCCCTGGCC TCGTCAATGC TGTGTTATGA ACAATCTTAA 600
 AGAACCTCTC AACCTGGAGG CTGTGAAACT AGGCGTGCTT GGTTTTATC ACAATCAGGG 660
 CTGCTATGAA CTGATCTCTG GTCCAAATGAA CCGACACGCC TGGGGGGTGG CTGTTTGG 720
 ATTTGCCATT CTCTGCTGGA CTTTGTGGGT TCTCCTGGGT ACCATGTCTCT ACTGGAGCAG 780
 AATTGAATAT TAAGAA

Seq ID NO: 334 Protein sequence
 Protein Accession #: NP_008883.1

1 11 21 31 41 51
 5 MAKDNSTVRC FQGLLIFGNV IIGCCGIALT AECIFFVSDQ HSLYPLLEAT DNDDIYGAAW 60
 IGIFVGICLF CLSVLGIVGI MKSSSRKILLA YFILMFIVYA FEVASCITAA TQRDFFTPNL 120
 FLKQMLERYQ NNSPNNDDQ WKXNGVTKTW DRMLQDNCC GVNGPSDWQK YTSAFRTENN 180
 DADYFWPRQC CVMNNLKEPL NLEACKLGVP GFYHNQGCYE LISGPMNRHA WGVAWFGFAI 240
 LCWTFWVLLG TMFYWSRIEY

10 Seq ID NO: 335 DNA sequence
 Nucleic Acid Accession #: NM_002638.1
 Coding sequence: 120..473

1 11 21 31 41 51
 15 CAATACAGCT AAGGAATTAT CCCTTGTAAT TACCACAGAC CCGCCCTGGA GCCAGGCCAA 60
 GCTGGACTGC ATAAAGATTG GTATGGCCTT AGCTCTTAGC CAAACACCTT CCTGACACCA 120
 TGAGGGCCAG CAGCTTCTTG ATCGTGGTGG TGTTCCTCAT CGCTGGGAGC CTGGTTCTAG 180
 AGGCAGCTGT CACGGGAGTT CCTGTTAAAG GTCAAGACAC TGTCAAAGGC CGTGTTCAT 240
 20 TCAATGGACA AGATCCCGTT AAAGGACAAG TTTCAGTTAA AGGTCAAGAT AAAGTCAAAG 300
 CGCAAGAGCC AGTCAAAGGT CCAGTCTCCA CTAAGCCTGG CTCTGCCCC ATTATCTTGA 360
 TCCGTGGCGC CATGTTGAAT CCCCCTAACC GCTGCTTGAA AGATACTGAC TGCCACAGGA 420
 TCAAGAAATG CTGTGAAGGC TCTTGCAGGA TGGCCTGTTT CGTTCGCCAG TGAAGGAGGC 480
 CGGTCTTGC TGCACTGTG CCGTCCCGAG AGCTACAGGC CCCATCTGGT CCTAAGTCCC 540
 25 TGCTGCCCTT CCCCCTCCA CACTGTCCAT TCTTCTCTCC ATTCAAGATG CCCACGGCTG 600
 GAGCTGCCCT TCTCATCCAC TTTCCAATAA A

30 Seq ID NO: 336 Protein sequence
 Protein Accession #: NP_002629.1

1 11 21 31 41 51
 35 MRASSFLIVV VFLIAGTLVL EAAVTGVPVK GQDTVKGKRV FNGQDPVKQG VSVKGQDKVK 60
 AQEFVKGPVS TKPGSCPILL IRCAMLNPPN RCLKDITDCPG IKKCEGSGC MACFVPG

35 Seq ID NO: 337 DNA sequence
 Nucleic Acid Accession #: NM_001793.2
 Coding sequence: 71..2560

40 1 11 21 31 41 51
 AAAGGGGCAA GAGCTGAGCG GAACACCGGC CGCGCTGCG GGCAGCTGCT TCACCCCTCT 60
 CTCTGAGGCC ATGGGGCTCC CTCTGGGACC TCTCGCTCT CTCTCTCTTC TCCAGGTTTG 120
 CTGGCTGCGT TGCGCGGCTT CCGAGCCGTG CCGGGCGGTC TTCAGGGAGG CTGAAGTGAC 180
 45 CTTGGAGGCG GGAGGCGCGG AGCAGGAGCC CGGCCAGGCG CTGGGGAAAG TATTCATGGG 240
 CTGCCCTGGG CAAGAGCCAG CTCTGTTTAG CACTGATAAT GATGACTTCA CTGTGCGGAA 300
 TGCGAGAGCA GTCCAGGAAA GAAGTCACT GAAGGAAGG AATCCATGTA AGATCTTCCC 360
 ATCCAAACGT ATCTTACGAA GACACAAGAG AGATTGGGTG GTTGCTCCAA TATCTGTCCC 420
 TGAAATGGC AAGGGTCCCT TCCCCAGAG ACTGAATCAG CTCAGTCTA ATAAAGATAG 480
 50 AGACACCAAG ATTTTCTACA GCATCAGGG GCGGGGGGCA GACAGCCCC CTGAGGGTGT 540
 CTTCGTGTA GAGAAGGAGA CAGGCTGGTT GTTGTGAAT AAGCCACTGG ACCGGGAGGA 600
 GATTGCCAAG TATGAGCTCT TTGGCCAGCG TGTGTAGAG AATGGTGCTT CAGTGGAGGA 660
 CCCCATGAAC ATCTCCATCA TCGTAGCCGA CCAGAATGAC CACAAGCCCA AGTTTACCCA 720
 GGACACTCTT CGAGGGAGTG TCTTAGAGGG AGTCTTACCA GGTACTTCTG TGATGCAGGT 780
 55 GACAGCCACG GATGAGGATG ATGCCATCTA CACCTACAAT GGGGTGGTGT CTCTATCCAT 840
 CCATAGCCAA GAACCAAGG ACCCACACGA CCTCATGTTC ACCATTACCC GGAGCACAGG 900
 CACCATCAGC GTCATCTCCA GTGGCCTGGA CCGGGAAAAA GTCCCTGAGT ACACACTGAC 960
 CATCCAGGCC ACAGACATGG ATGGGGACGG CTCCACCACC ACGGCAGTGG CAGTAGTGGA 1020
 60 GATCCTTGAT GCAATGACA ATGCTCCCAT GTTGAACCCC CAGAAGTACG AGGCCCATGT 1080
 GCCTGAGAA GCAATGGGCC ATGAGGTGCA GAGGCTGACG GTCACTGATC TGGAGCCCC 1140
 CAACTACCA GCGTGGCGTG CCACTACCT TATCATGGGC GGTGACGACG GGGACCATTT 1200
 TACCATCACC ACCCACTCTG AGAGCAACCA GGCATCCTG ACAACGAGGA AGGGTTTGGG 1260
 TTTTGAGGCC AAAAACAGC ACACCTGTA CGTTGAAGTG ACCAAGAGG CCCCCTTTGT 1320
 65 GCTGAAGTCC CCAACTCCA CAGCCACCAT AGTGGTCCAC GTGGAGGATG TGAATGAGGC 1380
 ACCTGTGTTT GTCCACCCCT CCAAAGTCGT TGAGGTCCAG GAGGGCATCC CCACTGGGGA 1440
 GCCTGTGTGT GTCTACACTG CAGAAGACCC TGACAAGGAG AATCAAAAGA TCAGCTACCG 1500
 CATCCTGAGA GACCCAGCAG GGTGGCTAGC CATGGACCCA GACAGTGGCG AGGTCAACAG 1560
 TGTGGGCACC CTGACCGCTG AGGATGAGCA GTTGTGAGG AACAACATCT ATGAAGTCAT 1620
 70 GGTCTTGGCC ATGGACATG GAAGCCCTCC CACCACTGGC ACGGGAAACC TTCTGTCTAAC 1680
 ACTGATTGAT GTCAATGACC ATGGCCAGT CCTGAGCCCC CGTCAGATCA CCATCTGCAA 1740
 CCAAAGCCCT GTGCGCCAGG TGCTGAACAT CACGGACAAG GACCTGTCTC CCCACCTC 1800
 CCTTTCCAG GCCAGCTCA CAGATGACTC AGACATCTAC TGGACGGCAG AGGTCAACGA 1860
 GGAAGGTGCA ACAGTGGTCT TGTCCCTGAA GAAGTTCCCTG AAGCAGGATA CATATGACGT 1920
 75 GCACCTTTCT CTGTCTGACC ATGGCAACAA AGAGCAGCTG ACGGTGATCA GGGCCACTGT 1980
 GTGCGACTGC CATGGCCATG TCGAAACCTG CCTTGAACCC TGGAAAGGAG GTTTCATCCT 2040
 CCTGTGCTG GGGGCTGTCC TGGCTCTGCT GTTCTCTCTG CTGGTGTCTG TTTTGTGTT 2100
 GAGAAAGAA GCGAAGATCA AGGAGCCCTT CCTACTCCCA GAAGATGACA CCGGTGACAA 2160
 CGTCTTCTAC TATGCGCAAG AGGGGGGTGG CGAAGAGGAC CAGGACTATG ACATCACCCA 2220
 80 GCTCCACGCA GTCTGTGAGG CCAGGCCGGA GGTGGTCTC CGCAATGACG TGGCACCAAC 2280
 CATCATCCCG ACACCATGT ACCGTCTCTG GCCAGCCAAC CCAGATGAAA TCGGCAACTT 2340
 TATAATTGAG AACCTGAAGG CCGCTAACAC AGACCCACCA GCCCCGCTT ACACACCTT 2400
 CTTGGTGTTC GACTATGAGG GCAGCGGCTC CGAGCGCGCG TCCCTGAGCT CCCCACCTC 2460
 CTCGCCCTCC GACCAAGACC AAGATTACGA TTATCTGAAC GAGTGGGGCA GCGGCTTCAA 2520
 GAAGCTGACA GACATGTAGC GTGGCGGGGA GGACGACTAG GCGGCTGTCC TGCAGGGCTG 2580

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GGGACCAAAC GTCAGGCCAC AGAGCATCTC CAAGGGGTCT CAGTTCCCCC TTCAGCTGAG 2640
GACTTCGGAG CTTGTAGGTA AGTGGCCGTA GCAACTTGGC GGAGACAGGC TATGAGTCTG 2700
ACGTTAGAGT GGTGTCTTCC TTAGCCTTTC AGGATGGAGG AATGTGGGCA GTTGTACTTC 2760
AGCACTGAAA ACCTCTCCAC CTGGGCCAGG GTTGCCCTCAG AGGCCAAGTT TCCAGAAAGC 2820
TCTTACCTGC CGTAAATATG TCAACCTGTG GTCTGGGGCC TGGGCTGCTG GTGACTGACC 2880
TACAGTGGAC TTTCTCTCTG GAATGGAACC TTCTTAGGCC TCCTGGTGCA ACTTAATTTT 2940
TTTTTTAAT GCTATCTTCA AAACGTTAGA GAAAGTTCTT CAAAAGTGCA GCCCAGAGCT 3000
GCTGGGCCCA CTGGCCGTCC TGCAATTCCT GTTTCACAGC CCCAATGCCT CCCATTGCGA 3060
TGGATCTCTG CGTTTTTATA CTGAGTGTGC CTAGGTGCC CCTATTTTT TATTTCCCT 3120
GTTGCGTTCG TATAGATGAA GGGTGAGGAC AATCGTGTAT ATGTACTAGA ACTTTTTTAT 3180
TAAAGAACT TTTCCAGAA AAAAA

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Seq ID NO: 338 Protein sequence
Protein Accession #: NP_001784.2

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1 11 21 31 41 51
MGLPRGLAS LLLLQVCWLO CAASEPCRAV FREAEVTLEA GGAEQEPGQA LGKVFMGCPG 60
QEPALFSTDN DQFTVRNGET VQERRSLKER NPLKIFPSKR ILRRHKRDWV VAPISVPENG 120
KGPFFQRLNQ LKSNKDRDTK IFYSITGPGA DSPPEGVFAV EKETGWLLLN KPLDREBIK 180
YELFGHAYSE NGASVEDPMN ISIIIVTDQND HKPKFTQDTF RGSVLEGVLP GTSVMQVAT 240
DEDDAIYTYN GVVAYSIHSQ EPKDPHDLMP TIHRSTGTIS VISSGLDREK VPEYTLTIQA 300
TMDGDGSGTT TAVAVVILSD ANDNAPMFDP QKYEAVHPEN AVGHEVQRLT VTDLDAPNSP 360
ANRATYLLMG GDDGDHFTIT THPESNQIL TTRKGLDFEA KNQHTLYVEV TNEAPFVLKL 420
PTSTATIVVH VEDVNEAPVF VPPSKVVEVQ EGIPTGEFVC VYTAEDPDKE NQKISYRILR 480
DPAGNLMADP DSGQVATVGT LDREDEQFVR NNIYEVMLA MDNGSPPTTG TGTLLTLID 540
VNDHGFVPEP RQITICNQSP VRQVLNITDK DLSPTSFPFQ AQLTDDSDIY WTAEVNEBGD 600
TVVLSLKFLL KQITVDVHLS LSDHGNKEQL TVIRATVDCD HGHVETCPGP WKGGFILPVL 660
GAVLALLFLL LVLLLLVRKK RKIKEPLLLP EDDTRDNVYF YGEEGGGEED QDYDITQLHR 720
GLEARPEVVL RNDVAPTIIIP TFMYRPRPAN PDEIGNFIE NLKAANTDPT APPYDTLLVF 780
DYEGSGSDAA SLSSLTSSAS DQDQDYDYLN EWGSRFKKLA DMYGGGEDD

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Seq ID NO: 339 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..672

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1 11 21 31 41 51
ATGAGGCTCC AAAGACCCCG ACAGGCCCGG GCGGTGGGA GCGCGCGGCC CCGGGCGCGG 60
CGGGGCTCCC CCTACCGGCC AGACCCGGGG AGAGGCGCGC GGAGGCTCGC AAGGTTCCAG 120
AAGGGCGGGG AGGGGGCGCC GCGCGCTGAC CCTCCCTGGG CACCGCTGGG GACGATGGCG 180
CTGCTCGGCT TGCTGCTGGT CGTGCCCTTA CGCGGGTGT GCACAGACGC CAACCTGACT 240
GCGAGACAAC GAGATCCAGA GGCATCCAG CGAACGGACG AGGGTGACAA TAGAGTGTGG 300
TGTCATGTTT GTGAGAGAGA AAACACTTTC GAGTGCCAGA ACCCAAGSAG GTGCAATGG 360
ACAGAGCCAT ACTCGGTTAT AGCGGCCGTG AAAATATTTC CACGTTTTTT CATGGTTGCG 420
AAGCAGTGCT CCGCTGGTTG TGACGCGATG GAGAGACCCA AGCCAGAGGA GAAGCGGTTT 480
CTCCTCGAAG AGCCCATGCC CTTCTTTTAC CTCAGTGTG GTAAATTCG CTACTGCAAT 540
TTAGAGGGGC CACCTATCAA CTCATCAGTG TTCAAAGAA ATGCTGGGAG CATGGGTGAG 600
AGCTGTGGTG GACTGTGGCT GGCCATCCTC CTGCTGCTGG CCTCATATGC AGCCGGCCTC 660
AGCCTGCTTT GA

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Seq ID NO: 340 Protein sequence
Protein Accession #: Eos sequence

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1 11 21 31 41 51
MRLQRPRQAP AGGRRAPRGG RGSFYRPDPG RGARRLRRFQ KGEGEAPRAD PFWAPLGTMA 60
LLALLLVVAL PRVWTDANLT ARQRDPEDSQ RTDEGDNRVW CHVCERENTP EQNPRRCWK 120
TEPYCVIAAV KIFPRPFMVA KQCSAGCAAM ERPKPEEKRF LLEPMPFFY LKCKKIRYCN 180
LEGPPINSSV FKEYAGSMGE SCGLWLAIL LLLASIAAGL SLS

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Seq ID NO: 341 DNA sequence
Nucleic Acid Accession #: XM_035292.2
Coding sequence: 53..1576

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1 11 21 31 41 51
GCTGCTGGG CCGCGGCTCC CGGGTGTCCC AGGCCCGGCC GGTGCGCAGA GCATGGCGGG 60
TGCGGGCCCG AAGCGGCGCG CGCTAGCGGC GCCGCGCGCC GAGGAGAAGG AAGAGGCGCG 120
GGAGAAGATG CTGGCCGCCA AGAGGCGCGA CGGCTCGCGC CCGGACGGCG AGGCGGAGGG 180
CGTGACCCCT CAGCGGAACA TCACGCTGCT CAACGGCGTG GCCATCATCG TGGGGACCAT 240
TATCGGCTCG GGCATCTTCC TGACGCCCCA GGGCGTGCTC AAGGAGGCAG GCTGCGCGGG 300
GCTGCGGCTG GTGGTGTGGG CCGCGTGGCG CGTCTTCTCC ATCGTGGGCG CGCTCTGCTA 360
CGCGGAGCTC GGCACACACA TCTCCAAATC GGGCGGCGAC TACGCTTACA TGCTGGAGGT 420
CTACGGCTCG CTGCCCGCCT TCCTCAAGCT CTGGATCSAG CTGCTCATCA TCGGCGCCTC 480
ATCGCAGTAC ATCGTGGCCC TGGTCTTCGC CACTACCTTG CTCAGCGCG TCTTCCCAC 540
CTGCCGCGTG CCGGAGGAGG CAGCCAAGCT CGTGGCCTGC CTCTGCTGTC TGCTGCTCAC 600
GGCGGTGAAC TGCTACAGCG TGAAGGCCGC CACCGGGCTC CAGGATGCCT TTGCCGCGCG 660
CAAGCTCTCG GCCTCGGCCG TGATCATCCT GCTGGGCTTC GTCCAGATCG GAAAGGGTGA 720
TGTTGCCAAT CTAGATCCCA ACTTCTCATT TGAAGGCACC AACTGTGATG TGGGGAACAT 780
TGTTGCTGCA TTATACAGCG GCCTCTTTGC CTATGGAGGA TGAATTAAT TGAATTTCTG 840
CACAGAGGAA ATGATCAACC CCTACAGAAA CCGTCCCTCG GCCATCATCA TCTCCCTGCC 900
CATCGTGAGC CTGGTGTAGC TGCTGACCAA CCTGGCCTAC TTACCAACCC TGTCCACCGA 960
GCAGATGCTG TCGTCCGAGG CCGTGGCCGT GGACTTCGGG AACTATCACC TGGGCGTCAT 1020

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GTCCTGGATC ATCCCCGTCT TCGTGGGCTC GTCCTGCTTC GGCTCCGTCA ATGGGTCCCT 1080
GTTCACATCC TCACAGGCTCT TCTTCGTGGG GTCCCGGGAA GGCCACCTGC CCTCCATCCT 1140
CTCCATGATC CACCCACAGC TCCTCACCCC CGTCCCGTCC CTCGTGTTC ACGTGTGTAT 1200
GACGCTGCTC TAGGCTTCTT CCAAGGACAT CTCTCCGTC ATCAACTTCT TCAGTCTTCT 1260
CAACTGGCTC TGGGTGGCCC TGGCCATCAT CGGCATGATC TGGCTGCGCC ACAGAAAGCC 1320
TGAGCTTGAG CGGCCATCA AGGTGAACCT GGCCCTGCTC GTGTCTTCA TCCTGGCCTG 1380
CCTCTTCCTG ATGCCGTCT CCTCTGGAA GACACCCGTG GAGTGTGGCA TCGGCTTCAC 1440
CATCATCTCT AGCGGGCTGC CCGTCTACTT CTTCGGGGTC TGGTGGAAAA ACAAGCCCAA 1500
GTGGCTCCTC CAGGGCATCT TCTCCAGCAC CGTCTGTGT CAGAAGCTCA TGCAGGTGGT 1560
CCCCAGGAG ACATAGCCAG GAGGCCGAGT GGTCGCCGA GGAGCATGC

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Seq ID NO: 342 Protein sequence
Protein Accession #: XP_035292.2

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1 11 21 31 41 51
MAGAGPKRRA LAAPAAEKE EAREKMLAAK SADGSAPAGE GEGVTLRQNI TLINGVAIIV 60
GTIIGSGIFV TPTGVLKEAG SPGLALVVWA ACGVFSIVGA LCYABLGTII SKSGGDYAYM 120
LEVYGSPLAF LKWLIELLII RPSSQYIVAL FETCPVPBEA AKLVACLCLV 180
LLTAVNCYSV KAATRVQDAF AAKLLALAL ILLGFVQIG KGDVSNLDPN FSFEGTKLDV 240
GNIVLALYSG LPAYVGGWNYL NFVTEEMINP YRNLFALIII SLPIVTLVYV LTNLAYFTTL 300
STEQMLSSEA VAVDFGNHYL GVMSNIIPVF VGLSCFGSVN GSLFTSSRLF FVGSREGHLP 360
SILSMHPQL LTPVPSLVFT CVMITLLYAFS KDIPSVINFF SFFNWLCAVAL AIIIGMIWLRH 420
RKPELERPIK VNLALPVFFI LACLFLLIAVS FWKTFVECGI GFTIILSGLP VYFFGVWKK 480
KPKWLLQGIF STTVLCQKLM QVVPQET

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Seq ID NO: 343 DNA sequence
Nucleic Acid Accession #: NM_005268.1
Coding sequence: 168..989

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35
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1 11 21 31 41 51
TAAAGAGCAA AAGAAATTCG GCGCGCGTGC ACACGGGCTT CCCCAGAAAC CTTCCTCGCT 60
TCTGGATATG AAATTCAGAG TGCTTGCTGA GTCCATTATG CGGCTGCTGG GAGCCAGGAG 120
AGCCCTGAGG AGTAGTCACT CAGTAGCAGC TGACGCGTGG GTCCACCATG AACTGGAGTA 180
TCTTTGAGGG ACTCTGAGT GGGGTCAACA AGTACTCCAC AGCCTTTGGG CGCATCTGGC 240
TGTCTCTGGT CTTCATCTTC CCGTGTCTGG TGTACTGGT GAGCGCCGAG CGTGTGTGGA 300
GTGATGACCA CAAGGACTTC GACTGCAATA CTCGCCAGCC CGGCTGCTCC AACGTCTGCT 360
TTGATGAGTT CTTCCTCTGG TCCCATGTGC GCCTCTGGGC CCTGCAGCTT ATCCTGGTGA 420
CATGCCCTCT ACTGCTCGTG GTCATGCAGC TGGCCCTACG GGAGGTTTCA GAGAAGAGGC 480
ACCGAGAAGC CCATGGGGAG AACAGTGGGC GCCTCTACCT GAACCCCGGC AAGAAGCGGG 540
GTGGGCTCTG GTGGACATAT GTCTGCAGCC TAGTGTTCAA GGCGAGCGTG GACATCGCCT 600
TTCTCTATGT GTTCACATCA TTCTACCCCA AATATATCTT CCTCTCTGTG GTCAAGTGCC 660
ACGAGATGCC CTGTCCTCAAT ATAGTGGACT GCTTCATCTC CAGCCCTTCA GAGAAGACA 720
TTTTACCCCT CTTCATGGTG GCCACAGCTG CCATCTGCAT CCTGCTCAAC CTCTGGGAGC 780
TCATCTACTT GGTGAGCAAG AGATGCCACG AGTGCTGGC AGCAAGGAAA GCTCAAGCCA 840
TGTGCACAGG TCATCACCCC CACGGTACCA CCTCTCTCTG CAAACAAGAC GACCTCCTTT 900
CGGGTGACCT CATCTTTCTG GGCTCAGACA GTCATCTCC TCTCTTACCA GACCGCCCCC 960
GAGACCATGT GAAGAAAACC ATCTTGTGAG GGGCTGCTGC GACTGCTCTG GCAGGTGGG 1020
CCTGATGGGG GAGGCTCTAG CATCTCTCAT AGGTGCAACC TGAGAGTGGG GGAGCTAAGC 1080
CATGAGGTAG GGGCAGGCAA GAGAGAGGAT TCAGAAGCTC TGGGAGCCAG TTCCTAGTCC 1140
TCAACTCCAG CCACCTGCCC CAGCTCGAAG GCACTGGGCC AGTTCCTCCCT CTGCTCTGCA 1200
GCTCGGTTTC CTTTCTAGA ATGGAATAG TGAGGGCCAA TGC

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Seq ID NO: 344 Protein sequence
Protein Accession #: NP_005259.1

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1 11 21 31 41 51
MNWSIFEGLL SGVNYSTAF GRWLSLVFI FRVLVYLVT A ERVNSDDHKO FDCNTRQPGC 60
SNVCFDEPPP VSHVRLWALQ LILVTCPSLL VMHVAYREV QEKRRHREAHG ENSGRLYLNP 120
GKKRGLLWWT YVCSLVFKAS VDIAPLYVTH SFYPKYLPP VVKCHADPCP NIVDCFISKP 180
SEKNIFTLFM VATAAICILL NLVELIYLYS KRCHCLAAAR KAQAMCTGHH PHGTSSCKQ 240
DDLSDGLIF LGSDSHPPLL PDRPRDHVK TIL

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Seq ID NO: 345 DNA sequence
Nucleic Acid Accession #: NM_002391.1
Coding sequence: 26..457

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1 11 21 31 41 51
CGGGCGAAGC AGCGCGGGCA GCGAGATGCA GCACCGAGGC TTCCTCTCTC TCACCTCTCT 60
CGCCCTGCTG CGCTCACCCT CCGCGGTGCG CAAAAAGAAA GATAAGGTGA AGAAGGGCGG 120
CCCGGGGAGC GAGTGGCTGT AGTGGGCTGC GGGGCCCTGC ACCCCAGCA GCAAGGATTG 180
CGGCTGGGTG TTCCGGGAGG GCACCTGCGG GGGCCAGACC CAGCGCATCC GGTGCGAGGT 240
GCCTGCAAC TGGAGAAGG AGTTTGGAGC GCACTGCAAG TACAAGTTTG AGAAGTGGGG 300
TGCGTGTGAT GGGGGCACAG GCACCAAGT CCGCAAGGC ACCCTGAAGA AGCGCGCTA 360
CAATGCTCAG TGCCAGGAGA CCATCCGCGT CACCAAGCCC TGCAACCCCA AGACCAAGC 420
AAAGGCCAAA GCCAAGAAAG GGAAGGGAAG GCACTAGACG CCAAGCTGTG ATGCAAGGA 480
GCCCTGTGGT TCACATGGGG CCTGGCCACG CCTCCCTCT CCCAGGCCG AGATGTGACC 540
CACCAGTGGT TCTGTCTGTC TCGTTAGCTT TAATCAATCA TGCCCTGCTC TGTCTCTCTC 600
ACTCCCAGC CCCACCCCTA AGTGCCCAA GTGGGAGGG ACAAGGGATT CTGGGAAGCT 660
TGAGCCTCCC CCAAGCAAT GTGAGTCCA GAGCCCGCTT TTGTTCTTCC CCACAATTCC 720
ATTACTAAGA AACACATCAA ATAACTGAC TTTTTCCTCC CAATAAAGC TCTCTTTTT 780

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TAATAT

Seq ID NO: 346 Protein sequence
Protein Accession #: NP_002382.1

1 11 21 31 41 51
| | | | | |
MQHRGFLLLT LLALLALISA VAKKKDKVKK GPGSECAEW AWGPCTPSSK DCGVGFREGT 60
CGAQTQIRIC RVPCNWKKEF GADCKYKFEN WGACDGGTGT KVRQGTLLKA RYNAQCQETI 120
RVTKPCTPKT KAKAKAKKKK GKD

Seq ID NO: 347 DNA sequence
Nucleic Acid Accession #: NM_006783.1
Coding sequence: 1..786

1 11 21 31 41 51
| | | | | |
ATGGATTGGG GGACGCTGCA CACTTTCATC GGGGGTGTCA ACAAACACTC CACCAGCATC 60
GGGAAGGTGT GGATCACAGT CATCTTTATT TTCGAGTCA TGATCTAGT GGTGGCTGCC 120
CAGGAAGTGT GGGGTGACGA GCAAGAGGAC TTCGTCTGCA ACACACTGCA ACCGGGATGC 180
AAAAATGTGT GCTATGACCA CTTTTCCCG GTGTCCCACTA TCCGGCTGTG GGCCTCCAG 240
CTGATCTTGT TCTCCACCCC AGCGCTGCTG GTGGCCATGC ATGTGGCCTA CTACAGGCAC 300
GAAACCACTC GCAAGTTCAG GCGAGGAGAG AAGAGGAATG ATTTCAAAGA CATAGAGGAC 360
ATTAAAAAGC ACAAGGTTTC GATAGAGGGG TCGCTGTGGT GGAAGTACAC CAGCAGCATC 420
TTTTTCCGAA TCATCTTTGA AGCAGCCTTT ATGTATGTGT TTTACTTCTT TTACAATGGG 480
TACCACCTGC CCTGGGTGTT GAAATGTGGG ATTGACCCCT GCCCAACCT GTTTGACTGC 540
TTTATTTCTA GGCCAACAGA GAAGACCGTG TTTACCATTT TTATGATTTC TGCGTCTGTG 600
ATTTGCATGC TGCTTAACCT GGCAGAGTTG TGCTACCTGC TGCTGAAAGT GTGTTTTAGG 660
AGATCAAAGA GAGCAGACAC GCAAAAAAAT CACCCCAATC ATGCCCTAAA GGAGAGTAAG 720
30 CAGATGAAA TGAATGAGCT GATTTCAGAT AGTGGTCAAA ATGCAATCAC AGGTTTCCCA 780
AGCTAA

Seq ID NO: 348 Protein sequence
Protein Accession #: NP_006774.1

1 11 21 31 41 51
| | | | | |
MDWGLHTPI GGVNKHSTSI GKVVHITVIFI FRVMILVVAA QEVWGDBQED FVCNTLQPGC 60
KNVCYDHFFP VSHIRLWALQ LIFVSTPALL VAMHVAYYRH ETTRKFRRG KRNDPKDIED 120
IKKKVKRIEG SLWWTYSSSI FFRIFEAAP MYVPYFLYNG YHLPNVLKCG IDPCPNLVDC 180
PISRPTKTV FTIFMISASV ICMLLNVDEL CYLLKVCFR RSKRAQTQKN HPNHALKESK 240
QNEHNEIISD SGQNAITGFP S

Seq ID NO: 349 DNA sequence
Nucleic Acid Accession #: NM_002571.1
Coding sequence: 99..587

1 11 21 31 41 51
| | | | | |
CATCCCTCTG GCTCCAGAGC TCAGAGCCAC CCACAGCCGC AGCCATGCTG TGCTCCTGTC 60
TCACCTCTGG CGTGGCCCTG GTCTGTGGTG TCCCGGCCAT GGACATCCCC CAGACCAAGC 120
AGGACCTGGA GCTCCCAAG TTGGCAGGGA CTTGGCACTC CATGGCCATG GOGACCAACA 180
ACATCTCCCT CATGGGACGA CTGAAGGCCCT CTCTGAGGGT CCACATCACC TCACTGTGTC 240
CCACCCCGCA GACCAACCTG GAGATCGTTC TGACAGATG GGAGAACAAAC AGCTGTGTTG 300
55 AGAAGAAGGT CCTTGGAGAG AAGACTGGGA ATCCAAAGAA GTTCAAGATC AACTATACGG 360
TGGGAAACGA GGCACAGCTG CTGATACTG ACTAAGACAA TTTCTGTGTT CTCTGCCTAC 420
AGGACACCAC CACCCCATC CAGAGCATGA TGTGCCAGTA CCTGGCCAGA GTCTGTGTTG 480
AGGACAGTGA GATCATGCAG GGATTCATCA GGGCTTTTCA GCGCTGCCC AGGCACCTAT 540
GGTACTTGCT GGAATGAAA CAGATGGAAG AGCCGTGCGG TTTCTAGCTC ACCTCGCCCT 600
60 CCAGGAAGAC CAGACTCCCA CCTTCCACA CCTCCAGAGC AGTGGGACTT CCTCTGCCC 660
TTTCAAAGAA TAAACACAGC TCAGAAGACG ATGAAGTGGT CATCTGTGTC GCCATCCCTT 720
TCTGCTGCA CACTGCAACC ATTGCCATGG GGAGGCTGCT CCCTGGGGGC AGAGTCTCTG 780
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Seq ID NO: 350 Protein sequence
Protein Accession #: NP_002562.1

1 11 21 31 41 51
| | | | | |
MDIPQTKQDL ELPLAGTWH SMAMATNNIS LMATLKAPLR VHITSLLPTP EDNLEIVLHR 60
WENNSCBEKK VLGEKTGNPK KFKINYTVAN EATLLDTDYD NLFELCLQDT TPIQSMCMQ 120
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Seq ID NO: 351 DNA sequence
Nucleic Acid Accession #: NM_006500.1
Coding sequence: 27..1967

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CGCCTGAGCT GGTGGAGGTG GAAGTGGGCA GCACAGCCCT TCTGAAGTGC GGCCTCTCCC 180
AGTCCCAAGG CAACCTCAGC CATGTCGACT GGTTTTCTGT CCACAAGGAG AAGCGGACGC 240
80 TCATCTTCCG TGTGCCCGAG GGCCAGGGCC AGAGCGAACC TGGGGAGTAC GAGCAGCGGC 300

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TCAGCCTCCA GGACAGAGGG GCTACTCTGG CCCTGACTCA AGTCACCCCC CAAGACGAGC 360
GCATCTTCTT GTGCCAGGGG AAGCGCCCTC GGTCCCAGGA GTACCGCATC CAGCTCCGCG 420
TCTACAAAGC TCCGGAGGAG CCAACATCC AGGTCAACCC CCTGGGCATC CCTGTGAACA 480
GTAAGGAGCC TGAGGAGGTC GCTACCTGTG TAGGGAGGAA CGGGTACCCC ATTCTCAAG 540
TCATCTGGTA CAAGAAATGGC CGGCCCTCTGA AGGAGGAGAA GAACCGGGTC CACATTCAGT 600
CGTCCCAGAC TGTGGAGTCG AGTGGTTTGT ACACCTTGCA GAGTATTCTG AAGGCACAGC 660
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GCTCAGTGAC GCAGGATCA ACCTGCCCC CGTCTCGTAA GACCGAACT GTAGTTGAAG 1860
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GGGAGCAGA CAAGATGAG GTCTACACTG TCCTTCATGG GGATTAAAGC TATGGTTATA 3060
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TGTTTTCTT TATATATGTA TGTATATATA TATATGAAAA TATATATATA TATGAAAAAT 3300
AAGCTTAAT TGTCCAGAA AATCATACAT TGCTTTTTTA TTCTACATGG GTACCAAGG 3360
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CTACCCTACT TTTACGAGC AAAACGTCCC GTATGACGCA GCACGAAGGG CCTGGCAGGC 3540
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Seq ID NO: 352 Protein sequence
Protein Accession #: NP_006491.1

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1 11 21 31 41 51
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WFSVHKEKRT LIFRVRQGG QSEPGYEYQR LSLQDRGATL ALTQVTPQDE RIFLCQKRP 120
RSQBYRIQLR VYKAPBEPNI QVNPLGIPVN SKEPEEVATC VGRNGYPIQP VIWYKGRPL 180
KEEKNRVHIQ SSQTVESSGL YTLQSLKQAQ LVKEDKDAQF YCELNYRLPS GNMKESREV 240
TVPVFPYFTEK VWLEVEPVGM LKBDREVEIR CLADGNPPPH FSISKQNPST REAEEETND 300
NGVLVLEPAR KEHSGRYECQ AWWLDTMISL LSEPQELLVN YVSDVRVSPA APERQEGSSL 360
TLTCEAESSQ DLEFQWLRER TDQVLERGFV LQLHDLKREA GGGYRCVASV PSIPGLNRTQ 420
LVKLAIIFGP WMFAFKERKVN VKENMVNLNS CBASGHPRPT ISWNVNGTAS EQDQDPQRLV 480
STLNLVTPPE LLETGVECTA SNDLGKNTSI LFLVLNLTIT LTPDSNITTG LSTSTASPH 540
RAMSTSTBRK LPPEBSRGVV IVAVIVCILV LAVLGAVLYF LYKKGKLPKR RSGKQBITLP 600
PSRKTELVEE VKSDKLPEEM GLIQSSGDK RAPGDQGEKY IDLRH

Seq ID NO: 353 DNA sequence
Nucleic Acid Accession #: NM_003183.3
Coding sequence: 165..2639

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1 11 21 31 41 51
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CGAAGGCTGC CCAGAGAGGT GGAGTCGTA GCGGGGCGGG GAACATGAGG CAGTCTCTCC 180
TATTCCTGAC CAGCGTGGTT CCTTCTGTGC TGGCGCCGCG ACCTCCGAGT GACCCGGGCT 240
TCGCCCCCA CCAGAGACTC GAGAAGCTTG ATTCCTTGCT CTCAGACTAC GATATCTCT 300

CTTTATCTAA TATCCAGCAG CATTCCGGTAA GAAAAAGAGA TCTACAGACT TCAACACATG 360
TAGAAACACT ACTAAGCTTT TCAGCTTTGA AAAGGCATTT TAAATTATAC CTGACATCAA 420
GTACTGAACG TTTTTCACAA AATTTCAAGG TCGTGGTGGT GGATGGTAAA AACGAAAGCG 480
AGTACACTGC AAAATGGCAG GACTTCTTCA CTGGACACGT GGTGGTGGAG CCTGACTCTA 540
GGGTTCTAGC CCACATAAGA GATGATGATG TTATAATCAG AATCAACACA GATGGGGCCG 600
AATATAACAT AGAGCCACTT TGGAGATTGG TTAATGATAC CAAAGACAAA AGAATGTTAG 660
TTTATAAATC TGAAGATATC AAGAAATGTT CACGTTTGCA GTCTCCAAAA GTGTGTGGTT 720
ATTTAAAAAT GGATAATGAA GAGTTGCTCC CAAAAGGGTT AGTAGACAGA GAACCACTG 780
AAGAGCTTGT TCATCGAGTG AAAAGAAGAG CTGACCCAGA TCCCATGAAG AACACGTGTA 840
AATTATTGGT GGTAGCAGAT CATCGCTTCT ACAGATACAT GGGCAGAGGG GAAGAGAGTA 900
CAACTACAAA TTACTTAATA GAGCTAATTG ACAGAGTTGA TGACATCTAT CGGAACACTT 960
CATGGGATAA TGCAGGTTTT AAAGGCTATG GAATACAGAT AGAGCAGATT CGCAATCTCA 1020
AGTCTCCACA AGAGGTAAAA CCTGGTGAAG AGCACTACAA CATGGCAAAA AGTTACCCAA 1080
ATGAAGAAAA GGATGCTTGG GATGTGAAGA TGTGTCTAGA GCAATTTAGC TTTGATATAG 1140
CTGAGGAAGC ATCTAAAGTT TGCTTGGCAC ACCTTTTCAC ATACCAAGAT TTTGATATGG 1200
GAACCTCTGG GTTCTTAAAT GTTGGCTCTC CCAGAGCAAA CAGCCATGGA GGTGTTTGTG 1260
CAAAGGCTTA TTATAGCCCA GTTGGGAAGA AAAATATCTA TTTGAATAGT GGTTTGACGA 1320
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ATGAGGACCA GGGAGGAAAA TATGTCATGT ATCCCATAGC TGTGAGTGGC GATCAGGAGA 1500
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GAGAAGAGTG TGATCCTGGC ATCATGTATC TGAACAAACA CACCTGCTGC AACACGGACT 1680
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AGTTTGAGAC TGCCCAAGAG AAGTGCCAGG AGGCGATTAA TGCTACTTGC AAAGGCGTGT 1800
CCTACTGACAG AGTGAATAGC AGTGAAGTGC CGCCTCCAGG AAATGCTGAA AATGACACTG 1860
TTTGCTTGGG TCTTGGCAAG TGTAAAGATG GGAATGTCAT CCCTTCTGCG GAGAGGGAAC 1920
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CTCTGTTTCA CCCCAGTAAC GTCGAAATGC TGAGCAGCAT GGATTCGCA TCGGTTGCGA 2340
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CCAGCACAGA CTCCCATATG GACGAGGATG GGTTTGAGAA GGACCCCTTC CCAATAGCA 2520
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TTTGAATCTC CTGAGGTAA ACAGTCTCTG TGTGGTTTGG CCCTTCTCCT TTTGAAAGG 2820
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TTGACCTGTG GTGCAAAAGC AGAAAAATCA GCTGGATTGG GTTATGAATA TTACGTTTT 2940
TGTAATTTAA TCTTTTATAT TGATAACAGC ACTGACTAGG GAAATGATCA GTTTTTTTTT 3000
ATACATCTTA ATGAACCGCT GAATATGAAG CATTTGGCAT TTATTTGTGA GAAAAGTGA 3060
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GTATACATGT TATCTAAAT GTGGGTCTAT TTCTAGTTAT TACCAGAGT TTTTATGTAG 3180
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GCCCACTACA CTCCAGCCTG GGTGACAGAG TGAGATCTGC CTC

Seq ID NO: 354 Protein sequence
Protein Accession #: NP_003174.2

1 11 21 31 41 51
MRQSLLEFLTS VVPFVLAPRP PDDPFGFPHQ RLEKLDLSLS DYDILSLNSI QHESVRKRD 60
QTSTHVELL TFSALKRHF LYLTSSTERF SQNFKVVVD GRNESEYTA WQDFPTGHV 120
GEPDSRVLAH IRDDDVIIIRI NTDGAENIE PLWRPVNDTK DKRMLVYKSE DIKNVSRQLS 180
PKVCGYLVKD NEELLKGLV DREPPPELVH RVKRRADPD MRNTCKLLV ADHRFYRYMG 240
RGEESTTINY LLELDLRVDD IYRNTSWDNA GPKGYGIQIE QIRILKSPQE VKPGEKHYNM 300
AKSYFNEEKD AWDVKMLLEQ PSFDIAEAS KVCLAHLFTY QDFDMGTLGL AYVGSPRANS 360
HGGVCPKAYY SPVVGKNIYL NSGLTSTRNY GKTILTKEAD LVITHELGHN FGAEDHPDGL 420
AECAPNEEDQ GRVVMPIAV SGDHENNKMF SNCSKQSIYK TIESKAQECF QERSNKCVCN 480
SRVDEGEEDC PGIMYLNNDT CCNSDCTLKE GVQCSDRNSP CCKNQCFETA QKKCQBAINA 540
TKGVSYCTG NSSECPPEFN AENDTVCLDL GKCKDGKCI FEREQQLS CACNETDNC 600
KVCCRDLSGR CVPYVDAEQ NLFLRKGP KC TVGFCDMNGK CEKRVQDVIE RFWDPIDQLS 660
INTFGKFLAD NIVGSLVFS LIFWIPFSL VHCVDKLLDK QYESLSLFRP SNVEMLSMD 720
SASVRIKPF PAPQTPGRLQ PAPVIPSAPA APKLDHQRMD TIQEDPSTDS HMDGDFEED 780
PPFNSSTAAR SFEDLTDHPV ARSEKAASF LQRQNRVNSK ETEC

Seq ID NO: 355 DNA sequence
Nucleic Acid Accession #: NM_021832.1
Coding sequence: 164..2248

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ATTCTGACC AGCGTGGTTC CTTTCGTGCT GCGCCGCGA CCTCCGGATG ACCCGGGCTT 240
CGGCCCCAC CAGAGACTCG AGAAGCTTGA TTCTTTGCTC TCAGACTACG ATATTCTCTC 300
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5 TACTGAACGT TTTTCACAAA ATTTCAAGGT CGTGGTGGT GATGGTAAA ACGAAAGCGA 480
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GGTTCAGCC CACATAAGAG ATGATGATGT TATAATCAGA ATCAACACAG ATGGGGCCGA 600
ATATAACATA GAGCCACTTT GGAGATTTGT TAATGATACC AAAGACAAA GAATGTTAGT 660
10 TTATAAATCT GAAGATATCA AGAATGTTTC ACGTTTGAG TCTCCAAAAG TGTGTGGTTA 720
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15 ATGGGATAAT GCAGGTTTTA AAGGCTATGG AATACAGATA GAGCAGATTG GCATTCTCAA 1020
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25 CCAGGAGTGT TTTCAAGAAC GCAGCAATAA AGTTTGTGGG AACTCGAGGG TGGATGAAGG 1620
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TGTAGCCAG TTGAATTAT GGAATCTACC AACTGTTAG GGCCTGATT TGCTGGCAG 3300
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55 AGAAAATTC TATTGGCTG GGAGTGGTG CTAATGCCG TAATCCAGC ACTTGAGAG 3420
3421 GCTGAGGTG CGCCACTACA CTCAGCCTG GGTGACAGAG TGAGATCTGC CTC

Seq ID NO: 356 Protein sequence

Protein Accession #: NP_068604.1

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QTSTHVELL TFSALKRHF LYLTSSTERF SQNFKVVVD GKNESEYTVK WQDFFTHGVV 120
65 GEPDSRVLAH IRDDDVIRI NTDGAEYNI PLNRFVNDTK DKRMLVYKSE DIKNVSRLOS 180
PKVCGYLKVD NEELLPKGLV DREPPPELVH RVKRRADPDF MKNTCKLLV ADHRFYRYMG 240
RGEESTTNY LIELIDRVDD IYRNTSWDNA GPKGYGIQIE QIRILKSPQE VKPGEKHYNM 300
AKSYPNEEKD AWDVKMLLEQ FSDIABEAS KVCLAHLFY QDFDMGTLGL AYVGSPPRNS 360
HGGVCPKAYY SPVGKKNLYL NSGLTSTKXY GKTILTKHAD LVTTHELGHN FGAHDPDGL 420
70 AECAPNEDQG GKYVMPYIAV SGDHENNKMF SNCSKQSIYK TIESKAQECF QERSNVKCGN 480
SRVDEGECD PGIMYLNDT CCNSDCTLKE GVQCSDRNSP CCKNCQFETA QKQCEALNA 540
TCKGVSYCTG NSSECPPPGN AEDDTVCLDL GKCKDGKICP FCEREQQLS CACNETDNCS 600
KVCCRDLSSR CVPYVDABQK NLFLRKGP KC TVGFCDMNGK CEKRVQDVIE RFWDFIDQLS 660
INTFGKFLAD NIVGSLVLPF LIFWIPPSIL VHCV

Seq ID NO: 357 DNA sequence

Nucleic Acid Accession #: NM_004994.1

Coding sequence: 20..2143

80 1 11 21 31 41 51
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CCTGAGAACC AATCTCACCG ACAGGCAGCT GGCAGAGGAA TACCTGTACC GCTATGGTTA 180
CACTCGGGTG GCAGAGATGC GTGGAGAGTC GAAATCTCTG GGCCTGCGC TGCTGCTTCT 240

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CCAGAAGCAA CTGTCCCTGC CCGAGACCGG TGAGCTGGAT AGCGCCACGC TGAAGGCCAT 300
GCGAACCACA CGGTGCGGGG TCCAGACCTT GGGCAGATTC CAAACCTTTG AGGGCGACCT 360
CAAGTGGCAC CACCACAACA TCACCTATTG GATCCAAAC TACTCGGAAG ACTTGGCGGG 420
GGCGGTGATT GACGACGCTT TTGCCCGGCG CTTCGCACTG TGGAGCGCGG TGACGCGCGT 480
CACCTTCACT CGCGTGATCA GCCGGGACGC AGACATGCTC ATCCAGTTTG GTGTGCGGGA 540
GCACGGAGAC GGGTATCCCT TCGACGGGAA GGACGGGCTC CTGGCACACG CCTTTCCTCC 600
TGGCCCGGCG ATTCAAGGAG ACGCCCATTT CGACGATGAC GAGTTGTGGT CCCTGGGCAA 660
GGCGTGTGTT GTTCCAACTC GGTTTGGAAG CGCAGATGGC GCGGCTCGCC ACTTCCCTTT 720
CATCTTGAGG GGCCGCTCCT ACTCTGCTCG CACCACCGAC GGTGCTCGCG ACGGCTTGCC 780
CTGGTGCAGT ACCACGGCCA ACTACGACAC CGACGACCGG TTTGGCTTCT GCCCAGCGA 840
GAGACTCTAC ACCCGGGACG GCAATGCTGA TGGGAAACCC TGCCAGTTTC CATTCATCTT 900
CCAAGGCCAA TCCTACTCCG CTGCAACAC GGACGCTCGC TCCGACGGCT ACCGCTGGTG 960
CGCCACCACG GCCAACTACG ACCGGGACAA GCTCTTCGGC TTCTGCCGGA CCGAGCTGA 1020
CTCGACGGTG ATGGGGGGCA ACTCGGCGGG GGAGCTGTGC GTCTTCCCTT TCACTTTCCT 1080
GGGTAAGGAG TACTCGACCT GTACCAGCGA GGGCCCGGGA GATGGGCGCC TCTGGTGCGC 1140
TACCACCTCG AACTTTGACA GCGACAAGAA GTGGGGCTTC TGCCCGGACC AAGGATACAG 1200
TTTGTCTCTC GTGGCGGGCG ATGAGTTCGG CCACGCGCTG GGTCTAGATC ATTCTCAGT 1260
GGCGGCGGCG CTATGTACCG CTATGTACCG GTTCACTGAG GGGCCCCCTT TGCATAAGGA 1320
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AACCACCAAC ACACGCGACG CCACGGCTCC CCGACGGCTC TGCCCCACCG GACCCCCAC 1440
TGTCACCTCG TCAGAGCGCC CCACAGCTGG CCCCACAGGT CCCCCTGAGC CTGGCCCCAC 1500
AGGTCCCCCG ACTGCTGGCC CTCTACGGC CACTACTGTG CCTTTGAGTC CGGTGGACGA 1560
TGCTGCAAC GCGAATCATC TCGACGCCAT CGCGGAGATT GGGAAACAGC TGTATTTGTT 1620
CAAGGATGGG AAGTACTGGC GATTCTCTGA GGGCAGGGGG AGCCGGCGCG AGGGCCCCCT 1680
CCTTATCGCC GACAAGTGGC CCGCGCTGCC CCGCAAGCTG GACTCGGTCT TTGAGGAGCC 1740
GCTTCTCAAG AAGCTTTTCT TCTTCTCTGG GCGCCAGGTG TGGGTGTACA CAGGCGCGTC 1800
GGTGTCTGGC CCGAGGCGTC TGGACAAGCT GGGCCTGGGA GCGCAGCTGG CCCAGGTGAC 1860
CGGGCCCTCG CCGAGTGGCA GGGGGAAGAT GCTGCTGTT AGCGGGCGCG GCCTCTGGAG 1920
GTTGACGCTG AAGCGCGAGA TGGTGGATCC CCGGAGCGCC AGCGAGGTGG ACCGATGTT 1980
CCCGCGGGTG CCTTTGGACA CGCAGCAGCT CTTCAGTAC CGAGAGAAAG CCTATTCTG 2040
CCAGGACCGC TTCTACTGGC CGGTGAGTTC CCGGAGTGG TGAACACAGG TGGACCAAGT 2100
GGGCTACGTG ACCTATGACA TCCTGCAAGT CCCTGAGGAC TAGGGCTCCC GTCTGCTTT 2160
GCACTGCGAT GCTAATCCCC ACTGGGACCA ACCCTGGGGA AGGAGCCAGT TTGCCGGATA 2220
CAAAGTGGTA TTCTGTTCTG GAGGAAAGGG AGGAGTGGAG GTGGGCTGGG CCCTCTCTTC 2280
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Seq ID NO: 358 Protein sequence
Protein Accession #: NP_004985.1

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1 11 21 31 41 51
MSLWQPLVLV LLVLGCCFAA PRQRQSTLVL FPGDLRTNLT DRQLAEELYL RYGYTRVAEM 60
RGESKSLGPA LLLQKQLSL PETGELDSAT LKAMRTPRCG VPDLRFRQTF EGDLEWHHHN 120
ITYWIQNYSE DLPRVIDDA FARAFALWSA VTPLTFTRVY SRDADIVIQF GVAEHGQGY 180
FDGKGLLHAF AFPFGPGIQG DAHFDDELW SLGKGVVVPF RFGNADGAAC HPPFIFEGRS 240
YSACTTDGRS DGLPWCSTTA NYDTRDFRFG CPSERLYTRD GNADGKPCQF PFIFQGGSYS 300
ACTTDGRSDG YRWCAATTY DRDKLFGFCP TRADSTVMGG NSAGELCVFP FTFLGKEYST 360
CTSEGRGACR LWCATTSNFD SDKKWGFCDP QGYSFLVAA HEFGHALGLD HSSVPEALMY 420
PMYRFTGEPF LHKDDVNGIR HLYGPRPEPE PRPPTTTTPQ FTAPPTVCPT GPPTVHPSER 480
FTAGTGPFPF AGPTGPPTAG PSTATTVPFS PVDDACNVNI FDAIABIGNQ LYLFDKQKYW 540
RFSEGRGSRP QGFLIADKW PALPRKLDSV FPEPLSKLFF PFSGRQVWVY TGASVLGPRR 600
LDKLGLGADV AQVTGALRSR RGMMLLFSGR RLWRFDVKAQ MVDPRSASEV DRMPFGVPLD 660
THDVQYRREK AYFCQDRFYW RVSSRSELNQ VDQVGIVTYD ILQCPED

Seq ID NO: 359 DNA sequence
Nucleic Acid Accession #: NM_000213.1
Coding sequence: 127..5385

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1 11 21 31 41 51
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AAGAGGATGG CAGGGCCACG CCCCAGCCCA TGGGCCAGGC TGCTCCTGGC AGCCTTGATC 180
AGCGTCAGCC TCTCTGGGAC CTTCGCAAC CGCTGCAAGA AGGCCCCAGT GAAGAGCTGC 240
ACGGAGTGTG TCCGTGTGGA TAAGGACTGC GCTACTGCA CAGACGAGAT GTTCAGGGAC 300
CGGCGCTGPA ACACCCAGGC GGAGCTGCTG GCGCGGGGCT GCCAGCGGGA GAGCATGCTG 360
GTACTGGAGA GCAGCTTCCA AATCACAGAG GAGACCCAGA TTGACACCAC CCTCGCGCGC 420
AGCCAGATGT CCCCCAAGG CTTGCGGGTC GGTCTGCGGC CCGGTGAGGA GCGGCATTTT 480
GAGCTGGAGG TGTGTGAGCC ACTGGAGAGC CCGTGGAGCC TGTACATCCT CATGGACTTC 540
TCCAATCCA TGTCCGATGA TCTGGACAAC CTCAGAAGA TGGGGCAGAA CCTGGCTCGG 600
GTCCTGAGCC AGCTCACCAG CGACTACACT ATTGGATTG GCAAGTTTGT GGACAAAGTC 660
AGCGTCCGCG AGACCGACAT GAGGCTGAG AAGCTGAAG AGCCCTGGCC CAACAGTGAC 720
CCCCCTTCT CTTTCAAGAA GTTCATCAGC CTGACAGAAG ATGTGATGA GTTCCGGAAT 780
AAACTGCAAG GAGAGCGGAT CTCAGGCAAC CTGATGCTC CTGAGGGCGG CTTGATGACC 840
ATCCTGCAAG CAGCTGTGTG CACGAGGGAC ATTGGCTGGC GCCCGGACAG CACCACCTG 900
CTGGTCTTCT CCACCGAGTC AGCCTTCCAC TATGAGGCTG ATGGCGCCAA CGTGTGGCT 960
GGCATCATGA GCGCGAACGA TGAACGGTGC CACCTGGACA CCACGGGCAC CTACACCCAG 1020
TACAGGACAC AGGACTACCC GTGCGTGCCC ACCCTGGTGC GCTGCTCGC CAAGCACAAC 1080
ATCATCCCCA TCTTTGCTGT CACCAACTAC TCCTATAGCT ACTACGAGAA GCTTCACACC 1140
TATTTCCCTG TCTCTCACT GGGGGTGTG CAGGAGGACT CGTCAACAT CGTGGAGCTG 1200
CTGGAGGAGG CCTTCAATCG GATCCGCTCC AACCTGAGCA TCCGGGGCCT AGACAGCCCC 1260
CGAGGCCCTC GGACGAGGT CACCTCAAG ATGTTCCAGA AGACGAGGAC TGGTCTCTTT 1320
CACATCCGCG GGGGGGAAGT GGGTATATAC CAGGTGCAGC TGCGGGCCCT TGAGCACGTG 1380
GATGGGACGC ACGTGTGCCA GCTGCCGGAG GACCAGAAGG GCAACATCCA TCTGAAACCT 1440

Seq ID NO: 360 Protein sequence
Protein Accession #: NP_000204.1

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MAGPRPSPWA	RLLAALISV	SLSGTLANRC	KKAPVKSCTE	CVRVKDCAY	CIDEMFDRR	60
CNTQAEQLAA	GQRESIVVM	RSSQFTIEST	KQDTLLRRSQ	MSPPQGLRVL	PGPEERHFEL	120
EVEFELPSA	DLYLMDFSN	SMDDLDNLK	QIMDTANLVL	SLSQSDYTI	RKGFVKVSV	180
PQDTMDPEKL	KEPWPNSDPP	PSFKNVISLT	EDVDEPRNKL	QGERISGND	APGEGFDAIL	240
QTCVTRDRI	WRPDSHTLLV	FSTESAFHYE	ADGANVLAVI	MSRNDRCHL	DTTGTYTOYR	300
TQDYPSPVLT	VLRLAKHNII	PIFAPVNTYS	SYEKLHTYFI	PVSSLGVLOE	DSSNIHVELG	360
PQFNPVPSNL	DTRALDSPRG	LRTVEYTKMP	OKRTYKGFHI	RREGEVGIQV	QLRALEHVD	420

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THVCQLPEDQ KGNHILKPSF SDGLKMDAGI ICDVCTCELQ KEVRSARCSF NGDFVCGQCV 480
CSEGWSSQTC NCSTGSLSDI QPCLEGEEDK PCSGRGECQC GHVCVYGEGR YEGQFCEYDN 540
FQCPRTSGFL CNDRCRCSMG QCVCEFGWTG PSCDCPLSNA TCIDSNGGIC NGRGHCECGR 600
CHCHQQSLYT DTICEINYSA IHPGLCEDLR SCVQCQAWGT GEKKGRTECE CNFKVKMDE 660
LKRAEEVVVR CSFRDEDDDC TYSYTMEDGD APGPNSTVLV HKKXDCPPGS FWMLIPLLLL 720
LLPLALLLLL LCWYKACCK ACLALLPCCN RGHMVGFKED HYMLRENLMA SDHLDTPLMR 780
SGNLKGRDVR RWKVTNNMQR PGFATHAASI NPTELVPYGL SLRLARLCTE NLLKPDTRC 840
AQLRQVEEEN LNEVYRQISG VHKLQQTFR QQPNAKKQD HTIVDTVLMA PRSAKPALLK 900
LTEKQVEQRA FHDLKVAPGY YTLTADQDAR GMVEFQEGVE LVDVVRVPLFI RPEDDDEKQL 960
LVEAIDVPAG TATLGRRLLN ITIIEQARD VVSFEQPEFS VSRGDQVARI PVIRRVLDGG 1020
KSQVSYRTQD GTAQGNRDYI PVEGELLFQP GEAWKELQVK LLELQEVDSL LRGRQVRRFH 1080
VQLSNPKFGA HLGQPHSTTI IIRDPDELD R SFTSOMLSSQ PPPHGLGAP QNPNAKAAGS 1140
RKIHFNWLEP SGKPMGYRVK YWIQGDESE AHLDSKVPS VELTNLYPYC DYEMKVCAYG 1200
AQGEGPYSSL VSCRTHQEVV SEPGRILAFNV VSSTVTQLSW AEPATNGEI TAYEVCYGLV 1260
NDDNRPIGPM KKVLDVDPKN RMLLIENLRE SQPYRYTVKA RNCAGWGP ER EAINLATQP 1320
KREMSIPIIP DTPIVDAQSG EDVDSFLMYS DDVLRSPSGS QRPVSDDTE HLVNRMDF 1380
FPGSTNSLHR MTTTSAAYG THLSPHVPHR VLSTSTLTR DYNLSLRSEH SHSTTLPRDY 1440
STLTSVSSHD SRLTAGVPDT PTRLVPSALG PTLRLVSWQE PRCEBPLQGY SVEYQLLNGG 1500
ELHRLNIPNP AQTSVVVEDL LPNHSYVFRV RAQSQEGWGR EREGVITIES QVHPQSPLCP 1560
LPGSAFTLST PSAPGPLVFT ALSPDSLQLS WERPRRPNGD IVGYLVTC EM AQGGGPATAF 1620
RVDGSPESR LTVPGLSENV PYKFKVQART TEGFGPEREG IITIESQDGG PFPQLGSRAG 1680
LFQHLQSEY SSTITHTSA TEPFLVDGPT LGAQHLEAGG SLTRHVTQEF VSRTLTTS GT 1740
LSTHMDQQFF QT

Seq ID NO: 361 DNA sequence
Nucleic Acid Accession #: NM_013332.1
Coding sequence: 1..63

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1 11 21 31 41 51
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AGTAACCGAC TTCTCTCCGG ACTCCTGCAC GACCTGCTCC TACAGCCGCG GATCCACTCC 120
CGGCTGTTC CCGGAGGGT CCAGAGGCCT TTCAGAAGGA GAAGGCAGCT CTGTTTCTCT 180
GCAGAGGAGT AGGGTCTCTT CAGCCATGAA GCATGTGTG AACCTCTACC TGTTAGGTGT 240
GGTACTGACC CTACTCTCCA TCTTCGTTAG AGTGATGGAG TCCTTAGAAG GCTTACTAGA 300
GAGCCCATCG CCGGGACCT CCTGGACCAC CAGAAGCCAA CTAGCCAACA CAGAGCCCA 360
CAAGGCCCTT CCAGACCATC CATCCAGAAG CATGTGATAA GACCTCCTCT CATACTGGCC 420
ATATTTTGA CACTGTACCT AGACATGTCC AGATGGGAGT CCCATTCTTA GCAGACAAGC 480
TGACACCCGT TGTAACCAGA GAACTATTAC TAGGCTTGA AGAAGCTGTC TAACTGGATG 540
CTCATGTCCCT GGGCAAGGCC GTTTTAGGCC GGTGCGGTG GCTCATGCCT GTAATCCTAG 600
CACTTTGGGA GGCTGAGGTG GGTGGATCAC CTGAGGTGAG GAGTTCGAGA CCAGCCTGCG 660
CAACATGGCG AAACCCCATC TCTACTAAAA ATACAAAAGT TAGCTGGGTG TGGTGGCAGA 720
GGCCTGTAAT CCCAGTCTCT TGGGAGGCTG AGCGGGAGA ATTGCTTGAA CCGGGGACG 780
GAGGTTGCAG TGAACCGAGA TGCACTGCT GTACCCAGCC TGGGCCACAG TGCAAGACTC 840
CATCTCAAAA AAAAAAGAA AAAAAAAGC CTGTTTAATG CACAGGTGTG AGTGGATTGC 900
TTATGGCTAT GAGTAGGTT GATCTCGCCC TTACCCCGGG GTCTGGTGTA TGCTGTGCTT 960
TCCTCAGCAG TATGGCTCTG ACATCTCTTA GATGTCCCAA CTTCAGCTGT TGGGAGATGG 1020
TGATATTTTC AACCTACTT CCTAAACATC TGCTGGGGT TCCTTTAGTC TTGAATGTCT 1080
TATGCTCAAT TATTTGGTGT TGAGCCTCTC TTCCACAAGA GCTCCTCCAT GTTTGGATAG 1140
CAGTTGAAGA GGTGTGTGG GTGGGCTGTT GGGAGTGAGG ATGGAGTGTT CAGTGCCCAT 1200
TTCTCATTTT CATTTTAAA GTCGTTCTCT CAACATAGTG TGTATTGGTC TGAAGGGGGT 1260
GGTGGGATGC CAAAGCCTGC TCAAGTTATG GACATTGTGG CCACCATGTG GCTTAAATGA 1320
TTTTTCTAA CTAATAAAGT GGAATATATA TTCAAAAAA AAAAAAAA AA

Seq ID NO: 362 Protein sequence
Protein Accession #: NP_037464.1

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1 11 21 31 41 51
MKHVLNLYLL GVVLTLISIF VRVMSLEGL LESPSPGTSW TTRSQLANTE PTKGLPDHPS 60
RSM

Seq ID NO: 363 DNA sequence
Nucleic Acid Accession #: NM_023915.1
Coding sequence: 250..1326

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1 11 21 31 41 51
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GTGAATGGAC AGCCAGCCAC CACAATGAAA GAAATCAAAC CAGGAATAAC CTATGCTGAA 180
CCCAGCCTC AATCGTCCCC AAGTGTTCCT TGACAACGAT CTTTGCTTAC AGTGATCAC 240
AACTGAAGAA TGGGGTTCAA CTGACGCTT GCAAAATTAC CAAATAACGA GCTGCAAGGC 300
CAAGAGAGTC ACAATTGAGG CAACAGGAGC GACGGGCCAG GAAAGAACAC CACCCTTCAC 360
AATGAATTTG ACACAATTGT CTGCGCGGTG CTTTATCTCA TTATATTGT GGCAGCATC 420
TTGCTGAATG GITTAGCAGT GTGGATCTTC TTCCACATTA GGAATAAAC CAGCTTCATA 480
TTCTATCTCA AAAACATAGT GGTGCGAGAC CTCATAATGA CGCTGACATT TCCATTTCGA 540
ATAGTCCATG ATGCAGGATT TGGACCTTGG TACTTCAAGT TTATCTCTG CAGATACACT 600
TCAGTTTGTG TTTATGCAAA CATGTATACT TCCATCGTGT TCCTTGGGCT GATAAGCATT 660
GATCGCTATC TGAAGGTGGT CAAGCCATTT GGGGACTCTC GGATGTACAG CATAACCTTC 720
ACGAAGGTTT TATCTGTTTG TGTGTTGGTG ATCATGGCTG TTTTGTCTTT GCCAAACATC 780
ATCCTGACAA ATGTCAGGCC AACAGAGGAC AATATCCATG ACTGCTCAA ACTTAAAGT 840
CCTTTGGGGT TCAATGGCA TACGGCAGTC ACCTATGTGA ACAGCTGCTT GTTTGTGGCC 900
GTGCTGGTGA TTCTGATCGG ATGTTACATA GCCATATCCA GGTACATCCA CAAATCCAGC 960

5 AGGCAATTCA TAAGTCAGTC AAGCCGAAAG CGAAAAACATA ACCAGAGCAT CAGGGTTGTT 1020
 GTGGCTGTGT TTTTACCTG CTCTCTACCA TATCACTGT GCAGAAATCC TTTTACTTTT 1080
 AGTCACTTAG ACAGGCTTTT AGATGAATCT GCACAAAAA TCCTATATTA CTGCAAGAA 1140
 ATTACACTTT TCTGTCTGCG GTGTAATGTT TGCCTGGATC CAATAATTTA CTTTTTCATG 1200
 TGTAGGTGAT TTTCAAGAAG GCTGTTCAAA AAATCAATA TCAGAACCCAG GAGTGAAGC 1260
 ATCAGATCAC TGCAAGTGT GAGAAGATCG GAAGTTCGCA TATATTATGA TTACACTGAT 1320
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 TTCAATTATCC TTAATAAAAA AA

10 Seq ID NO: 364 Protein sequence
 Protein Accession #: NP_076404

15 1 11 21 31 41 51
 MGFNLTAKL FNNELHQES HNSGNRSDGP GKQVTLHNEF DTIVLPVLYL IIFVASILLN 60
 GLAVWIFPHI RNKTSFIFYL KNIVVADLIM TLTFFPRIVH DAGFGPWYFK FILCRYTSVL 120
 FYANMYSIV FLGLISIDRY LKVVKPFGDS RMYSTFTKV LSVCVWVIMA VLSLPNIIIT 180
 NGQPTEDNIH DCSKLSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYIAIS RYIHKSSRQF 240
 ISQSSRKRIH NQSRVAVAV FFTCFPLPHL CRIPFTFSL DRLLDESQK ILYYCKEITL 300
 20 FLACNVCLD PIIFYFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV

25 Seq ID NO: 365 DNA sequence
 Nucleic Acid Accession #: NM_005365.1
 Coding sequence: 1..948

30 1 11 21 31 41 51
 ATGTCCTCG AGCAGAGGAG TCCGCACTGC AAGCCTGATG AAGACCTTGA AGCCCAAGGA 60
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 TCCTCTGACA GCAAGGAGGA GGAGGTGTCT GCTGCTGGGT CATCAAGTCC TCCCCAGAGT 180
 CCTCAGGAGG GCGCTTCTCT CTCCATTTCG GTCTACTACA CTTTATGGAG CCAATTCGAT 240
 GAGGGCTCCA GCAGTCAAGA AGAGGAAGAG CCAAGCTCCT CGTTCGACCC AGCTCAGCTG 300
 GAGTTCATGT TCCAAGAAGC ACTGAAATG AAGGTGGCTG AGTTGGTTCA TTTCCTGCTC 360
 CACAAATATC GAGTCAAGGA GCCGGTCACA AAGGCAGAAA TGCTGGAGAG CGTCATCAAA 420
 35 AATTACAGC GCTACTTTCC TGTGATCTTC GGCAAGCCT CCGAGTTCAT GCAGGTGATC 480
 TTTGGCACTG ATGTGAAGGA GGTGGACCCC GCCGGCCACT CCTACATCCT TGTCAGTGTCT 540
 CTGCGCTCTC CGTGCAGTAG CATGCTGGGT GATGGTCATA GCATGCCCAA GGCGCCCTCT 600
 CGATCATGT TCCCTGGGTG GATCCTAACC AAAGACAACT GCGCCCTGGA AGAGGTTATC 660
 40 TGGGAAGCGT TGAGTGTGAT GGGGGTGTAT GTTGGGAAGG AGCACATGTT CTACGGGGAG 720
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 CCGGCAAGTG ATCCTGCGCA CTACGAGTTC CTGTGGGGTT CCAAGGCCCA CGCTGAAACC 840
 AGCTATGAGA AGGTCAATAA TTATTGGTTC ATGCTCAATG CAAGAGAGCC CATCTGCTAC 900
 CCATCCCTTT ATGAAGAGGT TTTGGGAGAG GAGCAAGAGG GAGTCTGA

45 Seq ID NO: 366 Protein sequence
 Protein Accession #: NP_005356.1

50 1 11 21 31 41 51
 MSLEQRSPHC KPEDLEAQQ EDLGLMGAQE PTGEEETTS SSSKEBEVS AAGSSSPFQS 60
 PQGASSSIS VYTTLSQFD EGSSSQEEEE PSSSVDPALQ EPMFQALKL KVAELVHPLL 120
 HKYRKEPVT KAEMLSEVIK NYKRYFPVIF GKASEFMQVI PGTDVKEVDP AGHSYILVTA 180
 LGLSCDSMLG DGHSMFKAAL LIIVLGVILT KDNCAPEEVI WEALSVMGVY VGKEHMFYGE 240
 55 PRKLLTQDQV QENYLEYRQV PGSDPAHYEF LWGSKAHAE SYEKVINYL VMLNAREPICY 300
 PSLYEELVGE EQEGV

60 Seq ID NO: 367 DNA sequence
 Nucleic Acid Accession #: NM_014400
 Coding sequence: 86..1126

65 1 11 21 31 41 51
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 GAGCCCAAGG GAGCAGGACG GAGCCATGGA CCCCGCCAGG AAGCAGGTG CCCAGGCCAT 120
 GATCTGGAAT GCAGGCTGGC TGCTGTCTGT GCTGCTTCGC GGAGGAGCGC AGGCCCTGGA 180
 GTGCTACAGC TGCTGTGAGA AAGCAGATGA CGGATGCTCC CGGAACAAGA TGAAGACAGT 240
 GAAGTGGCGC CCGGCGGTGG ACCTCTGCAC CGAGGCCGTG GGGGCGGTGG AGACCATCCA 300
 CGGACAATTC TCCTGTGGCAG TGCSGGGTGG CGGTTGCGGA CTCGCCGCGA AGAATGACCG 360
 70 CGGCCTGGAT CTTCAGCGGC TTCTGGCGTT CATCCAGCTG CAGCAATGCG CTCAGGATCG 420
 CTGCAACGCC AAGCTCAACC TCACCTGCGG GCGCTGCGC CCGCAGGTA ATGAGAGTGC 480
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 GGGTACATCG CCGCGGCTCG TGAGCTGCTA CAACGCCAGC GATCATGTCT ACAAGGGCTG 600
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 75 CTGTGTCCAG GATGAATCT GCACTCGGGA TGGAGTAACA GGCCAGGGT TCACTCTCAG 720
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 TCTGCAAAA GGGGGGCCCC AGCAGCCCCA TAATAAAGGC TGTGTGGCTC CCACAGCTGG 1080
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 AAATTTCCCT CTCACCTACT TCTCTGGCCC TGGGTACCCC TCTTCTCATC ACTTCTCTGT 1200
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 CTTCTGCTGC GCTGGTTTGC GGCTTTGGA AATAAAATAC CGTTGTATAT ATTCTGGCAG 1320

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GGGTGTTCTA GCTTTTGGAG GACAGCTCCT GTATCCTTCT CATCCTTGTC TCTCCGCTTG 1380
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 AGGATGCTAA GCTTCTTACT CACTTTCTCC TAGCCAGCCT GGACTTTGGA GCGTGGGGTG 1500
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 ATCGGTTCCC CATATGTCTT CCTTACTAGA CTGTGAGCTC TCCGAGGGCA GGGACCGTGC 1620
 CTTATGCTCTG TGTGTGATCA GTTCTGGCA CATAAATGCC TCAATAAAGA TTTAATTACT 1680
 TTGTATAGTG AAAAAAAA

Seq ID NO: 368 Protein sequence
 Protein Accession #: NP_055215

1 11 21 31 41 51
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 MDPARKAGAQ AMIWTAGWLL LLLLRGGAQA LECYSCVQKA DDGCSFNKMK TVKCAPGV DV 60
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 SRALDPAGNE SAYPPNGVEC YSCVGLSREA CQGTSPFVVS CYNASDHVYK GCFDGNVTLT 180
 AANVTSLPV RGCVDDEFCT RDGVTGPGFT LSGSCCQGSR CNSDLRNKTY FSPRIPLVR 240
 LPPPEPTTVA STTSVTTSTS APVRPTSTTK PMPAPTSQTP RQGVHEASR DEEPRLTGGA 300
 AGHQDRSNSG QYPAKGGPQQ PHNKGCVAPT AGLAALLLAV AAGVLL

Seq ID NO: 369 DNA sequence
 Nucleic Acid Accession #: NM_005329.1
 Coding sequence: 1..1662

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 ATGCGCGTGC AGCTGAAGAC AGCCCTCGGT GTGGTGGGCA CCAGCCTGTT TGCCCTGGCA 60
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 CACTACTCTGT CTTTCGGCCT GTACGGGCGCC ATCCTGGGCG TGCACCTGCT CATTCAAGAC 180
 CTTTGTGCTT TCCTGGAGCA CGCGCGCATG CGAGCTGCGG GCCAGGCCCT GAAGCTGCCC 240
 TCCCCGCGCG GGGGCTCGGT GGCACCTGTG ATTGCCGCAT ACCAGGAGGA CCCTGACTAC 300
 TTGGCGCAAGT GCCTGCGCTC GGCCAGCGCC ATCTCCTTCC CTGACCTCAA GGTGGTCACTG 360
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 GGCGGCACCG AGCAGGCGCG CTCTTTTGTG TGGCGCAGCA ACTTCCATGA GGCAGGCGAG 480
 GGTGAGACCG AGGCCAGCCT GCAGAGGGGC ATGGACCGTG TCGGGGATGT GGTGCGGGCC 540
 AGCACCTTCT CGTGCACTCAT GCAGAAAGTG GGAGGCAAGC GCGAGGTGAT GTACACGGCC 600
 TTCAGGCCCC TCGGCGATTC GGTGCACTAC ATCCAGGTGT GCGACTCTGA CACTGTGCTG 660
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Seq ID NO: 370 Protein sequence
 Protein Accession #: NP_005320.1

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Seq ID NO: 371 DNA sequence
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Seq ID NO: 373 DNA sequence
 Nucleic Acid Accession #: built from NM_002851
 Coding sequence: 148-4518

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35	AATCCTGAAC	TTGATCTTTT	CCCTGAATTA	ATTGGAATCT	AAGAAATAAT	CAAGGAGGAG	1440
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	AACCAATATC	GGAAAAAGGA	ACCCAGATT	TCTACCACAA	CACACTACAA	TCGCATAGGG	1560
	ACGAATACA	ATGAAGCCAA	GACTAACCGA	TCCCCAACAA	GAGGAAGTGA	ATTCTCTGGA	1620
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	GCAACTTCTG	CTATCCCAT	CATCTCTGAG	AACATATCCC	AAGGGTATAT	ATTTTCTCTC	1980
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	AGCTTTCTCC	AGACTAATTA	CACCTGAGATA	CGTGTGATG	AATCTGAGAA	GACAAACCAAG	2220
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50 Seq ID NO: 375 DNA sequence
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Seq ID NO: 377 DNA sequence
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Seq ID NO: 382 Protein sequence
 Protein Accession #: NP_002842.1

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Seq ID NO: 383 DNA sequence

Nucleic Acid Accession #: NM_005688.1

Coding sequence: 126..4439

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      GCTGAATGGA TGCTGCAGAT GCGGGGCCAG GGGGCCGAG AGCCGCTGC TTGAGTTCTA 360
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Protein Accession #: Eos sequence

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Seq ID NO: 389 DNA sequence
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Protein Accession #: NP_006171.1

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 Protein Accession #: BAB61048.1

50 1 11 21 31 41 51
 MAAAAATKIL LCLPLLLLLS GWSRAGRADP HSLCYDITVI PKPRPGPRWC AVQGGVDEKT 60
 FLHYDCGNKT VTPVSPGLKK LNVTTAMRAQ NPVLREVVDI LTEQLRDIQL ENYTPREPLT 120
 55 LQARMSCEQK ABGHSSGSGWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM 180
 SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMSSGTT QLRATATTLI LCCLLIILPC 240
 FILPGI

60 Seq ID NO: 399 DNA sequence
 Nucleic Acid Accession #: NM_001898.1
 Coding sequence: 57..482

65 1 11 21 31 41 51
 GGCTCTCACC CTCCTCTCCT GCAGCTCCAG CTTTGTGCTC TGCCTCTGAG GAGACCATGG 60
 CCCAGTATCT GAGTACCCTG CTGCTCCTGC TGGCCACCTT AGCTGTGGCC CTGGCCCTGA 120
 GCCCAAGGA GGAGGATAGG ATAATCCCGG GTGGCATCTA TAACGCAGAC CTCAATGATG 180
 AGTGGGTACA GGGTGCCTT CACTTCGCCA TCAGCGAGTA TAACAGGCC ACCAAAGATG 240
 ACTACTACAG ACGTCCGCTG CGGGTACTAA GAGCCAGGCA ACAGACCGTT GGGGGGGTGA 300
 70 ATTACTTCTT CGACGTAGAG GTGGGCCGCA CCATATGTAC CAAGTCCAG CCCAACTTGG 360
 ACACCTGTGC CTTCATGAA CAGCCAGAAC TGCAGAAGAA ACAGTTGTGC TCTTTGAGA 420
 TCTACGAAGT TCCTGGGAG AACAGAAGGT CCCTGGTGAA ATCCAGGTGT CAAGAATCCT 480
 AGGGATCTGT GCCAGGCCAT TCGACCCAGC CACCACCCAC TCCACCCCTC TGTAGTGCTC 540
 CCACCCCTGG ACTGGTGCC CCCACCCCTG GGGAGGCCCTC CCTATGTGCC TGCGCCAGA 600
 75 GACAGACAGA GAAGGCTGCA GGAGTCTTT GTTGCTCAGC AGGGCGCTCT GCCTCCCTC 660
 CTCTCTCTT GCTTCTAATA GCCCTGGTAC ATGTATACAC CCCCCCACC TCCTGCAATT 720
 AACAGTAGC ATGCC

80 Seq ID NO: 400 Protein sequence
 Protein Accession #: NP_001889.1

1 11 21 31 41 51
 MAQYLSTLLL LLATLAVALA WSPKEEDRII PGGIYNADLN DEWVQRALHF AISEYNKATK 60
 DDYRRLPLRV LRARQQTGG VNYFFDVEVG RTICTKSQPN LDTCAFHEQP ELQKKQLCSF 120

EIYEVFWENR RSLVKSRCQS S

Seq ID NO: 401 DNA sequence

Nucleic Acid Accession #: NM_003976.2

Coding sequence: 299..961

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1	11	21	31	41	51	
CTCTGAGCTT	CTCTGAGCCT	TGTTTGCTCA	TCTGGAATAA	GGGGATTAAA	CCATTACCT	60
CATGGAGTTG	TGAAAGAATA	GCTGCAAGC	ACCTAACACA	TAGTAAGTT	CCCAGTGAG	120
CTACTTCTGC	TGGGTTGAGT	CTAGCTGTGT	AGGCCCTTG	TTCTCACCT	GGAGAACTG	180
GGGTGGCAGG	CCGTCCCCC	ACAAAAGATA	ACTCATCTCT	TAATTGCAA	GCTGCCTCA	240
CAGGAGGGTG	GGGGAACAGC	TCAACAATGG	CTGATGGGCG	CTCCTGGTGT	TGATAGAGAT	300
GGAACTTGA	CTTGAGGCC	TCTCCAGCT	GTCCCACTGC	CCCTGGCCTA	GGCGGAGCC	360
TGCCCTGTGG	CCACCCCTGG	CGCTCTGGC	TCTGCTGAGC	AGCGTCGAG	AGGCCCTCCT	420
GGGCTCGCG	CCCGCAGCC	CTGCCCCCG	CGAAGGCCCG	CCGCTGTCC	TGGCGTCCC	480
CGCCGGCCAC	CTGCCGGGG	GACGCACGC	CGCTGGTGC	AGTGAAGAG	CCCGCGGCC	540
GCCGCGCAG	CCTTCTGGC	CGCGCCCCC	GCCGCTGCA	CCCCATCTG	CTCTCCCG	600
CGGGGGCGCG	CGGGCGGGG	CTGGGGGCC	GGGCAGCCG	GCTCGGGAG	CGGGGGCGG	660
GGGCTGCGC	CTGGCTGCG	AGCTGGTGCC	GGTGGCGCG	CTCGGCTGG	GCCACCGCTC	720
CGACGAGCTG	GTGGCTTTC	GCTTCTGAG	CGGCTCCTG	CGCGCGCGC	GCTCTCCACA	780
CGACCTCAGC	CTGGCCAGCC	TACTGGGCG	CGGGGCCCTG	CGACCGCCC	CGGGCTCCG	840
GCCGCTCAGC	CAGCCCTGCT	GCCGACCCAC	GCGTACGAA	GCGTCTCCT	TCATGAGCT	900
CAACAGCACC	TGGAGAACCG	TGGACCGCT	CTCCGCCAC	GCTTGGGCT	GCTTGGGCTG	960
AGGGCTCGCT	CCAGGGCTTT	GCACTGGA	CCCTTACCG	TGGCTCTCC	TGCTGGGAC	1020
CTCCCGCAG	AGTCCCACTA	GCCAGCGGC	TCAGCCAGG	ACGAAGGCT	CAAGCTGAG	1080
AGGCCCCAC	CGGTGGTGA	TGGATATCAT	CCCGAACAG	GTGAAGGAG	AACTGACTAG	1140
CAGCCCCAG	GCCCTCACCC	TGCGGATCCC	AGCCTAAAAG	ACACCAGAGA	CCTCAGCTAT	1200
GGAGCCCTTC	GGACCCACTT	CTCAGAGCT	CTGGCACTGG	ACAGGCTCG	AACTGGGAC	1260
CCCTCTCTG	ATGAACACTA	CAGTGGCTGA	GGCATCAGCC	CCCGCCAGG	CCCTGTAGGG	1320
ACAGCAATTG	AAGGACACAT	ATTGAGTTG	CTGGTTGAA	AGTGCCTGTG	CTGGAATGG	1380
CCTGTACTCA	CTCATGGGAG	CTGGCCCC				

Seq ID NO: 402 Protein sequence

Protein Accession #: NP_003967.1

40
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1	11	21	31	41	51	
MELGLGLST	LSHCPWPRRQ	PALWPTLAAL	ALLSSVAEAS	LGSAPRSPAP	REGPPPVLAS	60
PAGHLPGGRT	ARWCSGRARR	PPQPSPRPAP	PPPPPSALP	RGGRAARAG	PGSRARAAGA	120
RGCRRLRSQV	PVRALGLGHR	SDELVRFRFC	SGSCRRARSP	HDLSLASLIG	AGALRFPFGS	180
RPVSPQCCRP	TRYEAVSFMD	VNSTWRTVDR	LSATACGCLG			

Seq ID NO: 403 DNA sequence

Nucleic Acid Accession #: NM_057091.1

Coding sequence: 783..1445

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1	11	21	31	41	51	
ACTGGCCGCT	GAGAGAAGAA	TGGGTGGAG	CAGAGAGCAG	CTGCTGCAGG	GCAGACAGCC	60
GGACCCCAAA	ATCTGCAGGT	ACCAGCAGTC	AGCCGCCCA	CGCAGGGACC	GGCTTACCCC	120
TGCTCTCCCG	CCCTCACTCA	CTTCTCCCG	CCCTGGGCC	GGCTTCCAG	CTCTCTACTT	180
CGCTGTCTTA	CAAACTCAAC	TCCCGGTTTC	GTGCTCTCTC	CACCGCTCGA	GTCTCTACTT	240
CTCCATATCC	GAGGGGCCCC	TCCAGCATC	TACCCCTCTC	CCAACCTCGG	GGGACCTAGC	300
CAAGCTAGGG	GGGAGTGAT	CCGACGGGTG	GAGCAGCCAG	GTGAGCCCGG	AAAGGTGGGG	360
CGGGGCGAGG	GGCTCTCCAG	CCCAACCCCG	GGATCTGGTG	ACGCTGGGGC	TGGAAATTGA	420
CACCGAGCAG	CTGCGCGCGC	GGGCAGGAGG	CTGCTGAGGG	ATGGAGTTGG	GCCCGGCCCC	480
CAGACAAGGC	CCGGGGGCTC	CGCCAGCAGC	AGGTCCCTCG	GGCCCCAGCC	CTGCTGCCCA	540
CCCGGGCCTG	GAGCCCCACA	CCCGAGGGTG	CAGACTGGCT	GCCAAAGGCC	CATTTTGGC	600
TAAAGAGGCG	ACTGCCAGGT	GTACAGTCC	GGGCATGCG	TGTTTGAAGT	TGGGGGAGAG	660
GCCAGCACT	GGTCCCGGGA	AAGGTGCCTA	GAAGAACAAG	GTGAGGAGCC	CCGTGCTGCC	720
TCAACAGGAG	GGTGGGGGAA	CAGCTCAACA	ATGGCTGATG	GGCGCTCCTG	GTGTGTATAG	780
AGATGGAAT	TGGACTTGA	GCCCTCTCCA	CGCTGTCCCA	CTGCCCTTGG	CCTAGCGCGC	840
AGCTTGCCT	GTGGCCACCC	CTGGCCGCTC	TGGCTCTGCT	GAGCAGCGTC	GCAGAGGCCT	900
CCCTGGGCTC	CGCGCCCGC	AGCCCTGCC	CCCGCGAAGG	CCCGCCGCT	GTCTTGGCT	960
CCCGCGCGG	CCACTGCGG	GGGGGACGCA	CGGCCCGCTG	GTGCACTGGA	AGAGCCCGGC	1020
GGCGCGCGCC	GCAGCTTCT	CGGCCCGCGC	CCCGCCGCGC	TGCACCCCA	TCTGCTCTTC	1080
CCCGCGGGGG	CCCGCGCGCG	CGGGCTGGGG	GCCCGGGCAG	CGCGCTCGG	GCAGCGGGGG	1140
CGCGGGGCTG	CCGCTGCGC	TGCGAGCTGG	TGCGGTGGG	CGCGCTCGG	CTGGGCCACC	1200
GCTCGAGCA	GCTGGTGGT	TTCGCTTCT	GCAGCGGCTC	CTGCGCGCGC	GCGGCTCTC	1260
CACACGACCT	CAGCTACTGG	AGCCTACTGG	GCGCGGGGCG	CCTGCGACCG	CCCCGGGGCT	1320
CCCGGCCCGT	CAGCCAGCCC	TGCTGCCGAC	CCAGCGGCTA	CGAAGCGGTC	TCCTTCATGG	1380
ACGTCAACAG	CACCTGGAGA	ACCGTGGACC	GCTCTCCCG	CACCGCTTGC	GGCTGCTTGG	1440
GCTGAGGGCT	CGCTCCAGGG	CTTTCAGAG	TGGACCTTA	CGGTGGCTC	TTCTGCTCTG	1500
GGACCTCTCC	GCAGAGTCCC	ACTAGCCAGC	GGCTCAGGCC	AGGGACGAGG	GCCTCAAGGC	1560
TGAGAGGCC	CTACCGGTGG	GTGATGGATA	TCATCCCGGA	ACAGGTGAAG	GGACAACCTGA	1620
CTAGCAGCCC	CAGAGCCCTC	ACCCTGCCGA	TCCAGCCCTA	AAAGACACCA	GAGACCTCAG	1680
CTATGGAGCC	CTTGGAGCCC	ACTTCTCACA	GACTCTGGCA	CTGGCCAGGC	CTCGAACCTG	1740
GGACCCCTCC	TCTGATGAAC	ACTACAGTGG	CTGAGGCATC	AGCCCCCGCC	CAGGCCCTGT	1800
AGGGACAGCA	TTTGAAGGAC	ACATATTGCA	CTTGCTTGGT	TGAAAGTGCC	TGTGCTGGAA	1860
CTGGCTGTGA	CTCACTCATG	GGAGCTGGCC	CC			

Seq ID NO: 404 Protein sequence

Protein Accession #: NP_003967.1

1 11 21 31 41 51
 5 MELGLGLST LSHCPWPRRQ PALNPTLAAL ALLSSVAEAS LGSAPRSPAP REGPPFVLAS 60
 PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP RGGRARAGG PGSRRARAAGA 120
 RGCRLRSQLV PVRALGLGHR SDELVRFRFC SGSCRRARSP HDLSLASLLG AGALRPPPGS 180
 RPVSQPCCRP TRYEAVSFMD VNSTWRTVDR LSATACGCLG

10 Seq ID NO: 405 DNA sequence
 Nucleic Acid Accession #: NM_057160.1
 Coding sequence: 1..714

1 11 21 31 41 51
 15 ATGCCCGGCC TGATCTCAGC CGAGGACAG CCCCTCCTTG AGGTCTTCC TCCCAAGCC 60
 CACCTGGGTG CCCTCTTTCT CCCTGAGGCT CCACTTGGTC TCTCCGCGCA GCGTCCCTG 120
 TGGCCCAACC TGCCCGCTCT GGCTCTGCTG AGCAGCGTCG CAGAGGCTC CTGGGCTCC 180
 20 GCGCCCGCA GCCCTGCCCC CGCGAAGGC CCCCCTGCTG TCTGGCGTC CCGCGCGGC 240
 CACCTGCGG GGGGACGCAC GGCCCGCTGG TGCACTGGAA GAGCCCGGG GCGCCCGCG 300
 CAGCTTCTC GCGCCGCGCC CCGCGCGCT GCACCCCAT CTGCTCTCC CCGCGGGGC 360
 CGCGCGGCG GGGCTGGGG CCGGGGAGC CGCGCTCGG CAGCGGGGC GCGGGCTGC 420
 CGCTGCGCT CGCAGCTGGT GCGGTGCGC GCGCTCGGC TGGCCACCG CTCCGACGAG 480
 25 CTGGTGCTT TCCGCTTCTG CAGCGGCTCC TGCCCGCGG CGCGCTCTCC ACACGACCTC 540
 AGCTTGCCCA GCCTACTGGG CGCCGGGGCC CTGCGACCG CCGCGGGCTC CCGCCCGCTC 600
 AGCAGCCCT GCTGCGGACC CACGCGCTAC GAAGCGGTCT CCTCATGGA CGTCAACAGC 660
 ACCTGGAGAA CGGTGGACCG CCTCTCGGCC ACCGCTCGG GCTGCTGGG CTGAGGGCTC 720
 GCTCCAGGCG TTGTGAGACT GGACCTTAC CGTGGCTCT TCTGCTGGG GACCTCCCG 780
 30 CAGAGTCCCA CTAGCCAGCG GCCTCAGCCA GGGACGAAG CCTCAAAGCT GAGAGGCCCC 840
 TACCGGTGGG TGATGGATAT CATCCCCGAA CAGGTGAAGG GACAACTGAC TAGCAGCCCC 900
 AGACCCCTCA CCGTGGGATC CCCAGCCTAA AAGACACAG AGACCTCAGC TATGGAGCCC 960
 TTGCGACCCA CTCTCAGAC ACTCTGGCAC TGGCCAGGCC TCGAACTGG GACCCCTCT 1020
 CTGATGAACA CTACAGTGGC TGAGGCATCA GCGCCGCGC AGGCCCTGTA GGGACAGCAT 1080
 35 TTGAAGGACA CATATTGCAG TTGCTTGGT GAAAGTGCT GTGCTGAAC TGGCTGTAC 1140
 TCACCTATGG GAGCTGGCCC C

Seq ID NO: 406 Protein sequence
 Protein Accession #: NP_476501.1

40 1 11 21 31 41 51
 MPGLISARGQ PLLEVLPPQA HLGALFLPEA PLGLSAQPAL WPTLAALALL SSVAEASLGS 60
 APRSPAPREG PPPVLASAPG HLPGRRTARW CSGRARRPPP QPSRPAPPPP APPSALPRGG 120
 45 RAARAGGPGS RARAGARGC RLRSQLVFVR ALGLGHRSD E LVRFRFCSGS CRRARSPHDL 180
 SLASLLGAGA LRPPGSRPV SQPCCRPTRY EAVSFMDVNS TWRTVDRLSA TACGCLG

Seq ID NO: 407 DNA sequence
 Nucleic Acid Accession #: NM_057090.1
 Coding sequence: 29..715

50 1 11 21 31 41 51
 CTGATGGGCG CTCTGGTGT TGATAGAGAT GGAACITGGA CTTGGAGGCC TCTCCAGCT 60
 GTCCCACTGC CCCTGGGCTA GCGGCGAGGC TCCACTTGGT CTCTCCGCGC AGCCTGCCCT 120
 55 GTGGCCACCC CTGGCGCTC TGCTCTGCTG GAGCAGGTC GCAGAGGCTC CCTGGGCTC 180
 CGCGCCCGC AGCCCTGCCC CCGCGAAGG CCCCCTGCTG GTCTGGGCT CCGCGCGGC 240
 CCACCTGCGG GGGGAGCGCA CCGCCGCTG GTGCACTGGA AGAGCCGCGC GCGCGCGGC 300
 GCAGCCTTCT CGGCGCGGC CCGCGCGGC TGCACCCCA TCTGCTCTC CCGCGGGGG 360
 60 CGCGCGGCG CGGCTGGGG GCGCGGCGC CCGGCTCGG GCAGCGGGG CCGCGGCTG 420
 CGGCTGCGC TCGCAGCTG TGCGGTGCG CGGCTCGGC CTGGGCGACC GCTCCGACGA 480
 GCTGGTGCT TTCCGCTTCT GCAGCGGCTC CTGCGCGGC GCGGCTCTC CACACGACCT 540
 CAGCTGGCC AGCCTACTG GCGCGGGGC CTGCGACCG CCGCGGGCT CCGCGCGCT 600
 CAGCCAGCCC TGCTGCGAC CCACGCGCTA GAAAGCGGT TCTTCTATG ACGTCAACAG 660
 65 CACCTGGAGA ACCGTGGACC GCCTCTCCG CACCGCTGCG GGTCTGCTG GCTGAGGCT 720
 CGCTCCAGG CTCTGAGAC TGGACCTTA CCGGTGGCTC TTCTGCGCT GACCCCTCC 780
 GCAGAGTCCC ACTAGCCAGC GGCTCAGCC AGGGACGAAG GCCTCAAAGC TGAGAGGCC 840
 CTACCGTGG GTGATGGATA TCATCCCGA ACAGGTGAAG GGACAACTGA CTAGCAGCCC 900
 CAGAGCCCTC ACCCTGGGA TCCAGCCTA AAAGACACCA GAGACCTCAG CTATGGAGCC 960
 70 CTTGGAGCCC ACTTCTCACA GACTCTGGCA CTGGCCAGGC CTGCAACTG GACCCCTCC 1020
 TCTGATGAAC ACTACAGTG CTGAGGCATC AGCCCGCGC CAGGCGCTGT AGGGACAGCA 1080
 TTTGAAGGAC ACATATTGCA GTTGCTTGT TGAAAGTGC TGTGCTGAA CTGGCTGTGA 1140
 CTCACCTATG GAGCTGGCCC C

75 Seq ID NO: 408 Protein sequence
 Protein Accession #: NP_476431.1

80 1 11 21 31 41 51
 MELGLGLST LSHCPWPRRQ AFLGLSAQPA LWPTLAALAL LSSVAEASLG SAPRSPAPRE 60
 GPPPVLASPA GHLPGGRTAR WCSGRARRPP PQPSRPAPPP PAPPSPALPRG GRARAGGPG 120
 SRARAAGARG CRLRSQLVFV RALGLGHRSD ELVRFRFCSG SCRRARSPHD LSLASLLGAG 180
 ALRPPPGSRP VSQPCCRPTRY YEAVSFMDVN STWRTVDRLS ATACGCLG

Seq ID NO: 409 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1746

5	1	11	21	31	41	51	
	ATGCCACTGA	AGCATTATCT	CCTTTTGCTG	GTGGGCTGCC	AAGCCTGGGG	TGCAGGGTTG	60
	GCCTACCATG	GCTGCCCTAG	CGAGTGTACC	TGCTCCAGGG	CCTCCCAGGT	GGAGTGCAAC	120
	GGGGCAGCGA	TTGTGGGGGT	GCCCCACCCCT	CTGCCCTGGA	ACGCCATGAG	CCTGCAGATC	180
10	CTCAACACGC	ACATCACTGA	ACTCAATGAG	TCCCCGTTC	TCAATATCTC	AGCCCTCATC	240
	GCCCTGAGGA	TTGAGAAGAA	TGAGCTGTGC	CGCATCACGC	CTGGGGCCTT	CGAAACCTG	300
	GGCTGCTGCG	GCTATCTCAG	CCTCGCCAAC	AACAAGCTGC	AGGTTCCTGC	CATCGGCCTC	360
	TTCCAGGGCC	TGGACAGCCT	TGAGTCTCTC	CTTCTGTCCA	GTAACCACT	GTTCAGATC	420
	CAGCCGGCCC	ACTTCTCCCA	GTGCAGCAAC	CTCAAGGAGC	TGCAGTTGCA	CGCAACAC	480
15	CTGGAATACA	TCCCTGACGG	AGCCTTCGAC	CACCTGGTAG	GACTCACGAA	GCTCAATCTG	540
	GGCAGGAATA	TCTTCACCCA	CATCTCACCC	AGGGTCTTCC	AGCACTGGG	CAATCTCCAG	600
	GTCTCTCGGC	TGTATGAGAA	CAGGCTCAG	GATATCCCA	TGGGCATTT	TGATGGGCTT	660
	GTAACTGTC	AGGAAGTGGC	TCTACAGCAG	AACAGATTTG	GACTGCTCTC	CCCTGGTCTC	720
20	TTCCACAACA	ACCACAACCT	CCAGAGACTC	TACCTGTCCA	ACAACCATAT	CTCCAGCTG	780
	CCACCCAGCA	TCTTCATGCA	GCTGCCCCAG	CTCAACCGTC	TTACTCTCTT	TGGGAATTC	840
	CTGAAGAGTA	TCTCTCTGGG	GATCTTCGGG	CCCATGCCCA	ACCTGCGGGA	GCTTTGGCTC	900
	TATGACAACC	ACATCTCTTC	TCTACCGAC	AATGTCTTCA	GCAACCTCCG	CCAGTTGACG	960
	GTCTTGATTC	TTAGCCGCAA	TCAGATCAGC	TTCTCTCTCC	CGGTGCGCTT	CAACGGGCTA	1020
	ACGGAGCTTC	GGGAGCTGTC	CCTCCACACC	AACGCACTGC	AGGACCTGGA	CGGGAATGTC	1080
25	TTCCGATGTT	TGGCCAACTT	CGAGAATATC	TCCCTGCAGA	ACAATCGCCT	CAGACAGCTC	1140
	CCAGGGAATA	TCTTCGCCAA	GTCAATGGC	CTCATGGCCA	TCCAGCTGCA	GAACAACCA	1200
	CTGGAGAATC	TGCCCTCGGG	CATCTTCGAT	CACCTGGGGA	AACCTGTGGA	GCTGGGGCTG	1260
	TATGACAATC	CCTGGAGGTG	TGACTCAGAC	ATCCTTCGCG	TCCGCAACTG	GCTCTGCTC	1320
	AAACAGCCTA	GGTTAGGGAC	GGACACTGTA	CCTGTGTGTT	TCAGCCCAAG	CAATGTCCGA	1380
30	GGCCAGTCCC	TCAATATCAT	CAATGTCAAC	GTTCGTGTTT	CAAGCGTCCA	TGTCCCTGAG	1440
	GTGCTAGTT	ACCCAGAAAC	ACCATGTTAC	CCAGACACAC	CCAGTTACCC	TGACAACACA	1500
	TCCGTCTCTT	CTACCACTGA	GCTAACCAAG	CCTGTGGAAG	ACTACTACTGA	TCTGACTACC	1560
	ATTGAGGTCA	CTGATGACCG	CAGCGTTTGG	GGCATGACCC	AGGCCAGAG	CGGGCTGGCC	1620
	ATTGCCGCCA	TGTAAATTGG	CATTGTGCGC	CTGGGCTGCT	CCCTGGCTGC	CTGGCTCGGC	1680
35	TGTTGCTGCT	GCAAGAAGAG	GAGCCAAAGT	GTCTGTATGC	AGATGAAGGC	ACCCATGAG	1740
	TGTTAAAGAG	GCAGGCTGGA	GCAGGGCTGG	GGAAATGATG	GACTGGAGGA	CCTGGGAATT	1800
	TCACTTTTCT	GCCTCCACCC	CTGGTCCAT	GGAGCTTTC	CGTGATTGCT	CTTTCTGGCC	1860
	CTAGATAAAG	GTGTGCTTAC	CTCTTCTGTA	CTTGCTGTAT	TCTCCGTAG	AGAAGCAGGT	1920
	CGTGCCGGAC	CTTCCCTACAA	TCAGGAAGAT	AGATCCAACT	GGCCATGGCA	AAAGCCCTGG	1980
40	GGATTTCGGA	TTCAATACCC	TGGGCTTCTT	TCGAGAGGGC	TCTTCTCTCA	AATCCTCCCC	2040
	ACCTGTCCTT	CAAGAACAGC	CTTCCCTGCG	CCCAGGCCCC	CTCCGGGCTT	CTGTAGACTC	2100
	AGTTAGTCCA	CAGCCTGCTC	ACTTCGTGGG	AATAGTTCTC	CGCTGAGATA	GCCCCCTCTG	2160
	CCTAAGTATT	ATGTAAGTTG	ATTTCCCTTC	TTTTGTTTCT	CTTGTGTTG	CTATGGCTTG	2220
	ACCCAGCATG	TCCCTCAAA	TGAAAGTTCT	CCCCTTGATT	TCTGCTCTCT	GAAGGCAGGG	2280
45	TGAGTTCTCT	CCTCAAGAA	GACTTCAAAC	CATTAACTG	GTTCCTTAAG	AGCCGTCAT	2340
	CAGCCTGGTT	TTGGGGATCG	TATGAAAGAG	AGAAGGAAAA	TCATGCGGCT	CAGTTCTCTG	2400
	AGACAGAAGA	GCCGTATCA	GTGTCTCACT	TGTGATTTT	ATCTGGAAAA	GGAGAAACA	2460
	CCCCAGCACA	GCAAGCTCAG	CCTTTTAGAG	AAGGATATTT	CCAACTGCA	AACCTTGCTT	2520
	TGAAAGTTT	AGCCCTTTAA	GGAATGAAAT	CATGTAGAAT	TTGGACTTC	TAAAAACATT	2580
50	AAAATCAGCT	TATTAATACG	GGATAGAGAA	AGAAATCTGG	TGCCCTGGGG	TCCCTGTGTT	2640
	CACCCCTGAT	GTTTGTTTTA	AAATTTTAA	TTGAAGCATG	TGAAGTGATC	STGCAGAAAA	2700
	GTGGGAACAT	GATAGTGTAT	GGCTTGGTGG	ATTTTCACAA	ACTGAACATA	CCTGTGTAAT	2760
	CAGCATCTAG	ACCCAGACCC	AGAGCATCAC	AAATATCCCC	CATCCTGGGC	TTTCCACAGA	2820
	GGAGATGGGG	GCTTCTGAAG	ATGGACTTAC	CTGGGACCTG	CCCCCCTAGA	GCCAGGACGG	2880
55	TCCCCACACA	GTACGCTGCT	GCAAGGGCCC	CGTGCCACAG	GGTGGAGGAG	AATATGTGGG	2940
	TGTGGACAGG	ATGGGATGAG	GTGGCCTGAA	CAGGAGATTT	TATTATATCT	GGAGACCTCG	3000
	AGAGACCCCT	AGACCTGGGG	CACCATGGCT	GGCCAGGTCA	GAAGCATCCT	GACTGCAGAG	3060
	GTCCGTGCGA	CCACACCCCT	TTCCCTGCCA	GCAAGTTGTC	TGCGGCTCAT	CGGAGGCCCC	3120
	TCCGCTGGGA	GCCTTCTATG	GACGTGATAT	GCCTGTATCT	GTTTTAAATT	TTCAATCTTC	3180
60	ACTTAGGGTA	AGTGAAATCG	CTCAGAGATG	AGATCCTTTA	ATTGAAAAAG	AAGTGTAAAG	3240
	GAATCTAGTA	TCTTTCTAAT	GTGGTAAAT	TCTCCATCAA	CATCACAGTC	AGCTGGCAGC	3300
	TGAACCTCAG	AATCTCACTT	ACAGCAGGCG	ACACGGGGGT	ACACCGATGG	GTCACTAGG	3360
	GTCTGGGGGC	TCCCTGGAGC	TCCCTCTGCG	TGTGCTCTGG	TTAGGAGTTG	AGTTGTTTGC	3420
	TCCAGGGTTA	TTCTCTCTCT	CGAGTCACAG	TCACAGGAAT	ACCTGCCTTC	TCGTGCTTTC	3480
65	CTGCTATACA	CATATTACAA	TGGCGCTCAA	GAAGTTAGGC	TCATGGCAAC	GTGTGCTTTT	3540
	CTCTGGACAA	CTGGCCCACT	TTACAGTGAA	ATGGAGAAAT	TCAGGTCTCC	ACCTCTGCCC	3600
	AGGAAGAAGC	TTACGCTGAC	TCCACGGGGA	TCTGGAATTC	CACGACCAAT	CCGATCGGCG	3660
	TCTTATTAGC	TCCCGCTTCC	ACRAGACACC	TGTGCTTTGG	AAATCCACCA	CCAATCCCGA	3720
	TGGCTCTTTA	TTAGCTCCCC	GCTCCACAG	ACACCTGTGA	TCGTGAAATC	TACCACCAAT	3780
70	CCGATCGGCG	TCTTATTAGC	TCCCGCTTCC	ACAAGACACC	TGTGACATCC	TCCAGGGCCA	3840
	CAGGAGCAGG	TGCTGACCAAG	TTTCCCTTTC	CAGTTCTGCG	ACAAAAAGTG	TCCAGAGGGC	3900
	TGTTTGCAAA	CATAGTGCA	CTTTGTAGCT	TTTCAACCTC	TGTCCACAGG	AATCTAGGAG	3960
	AGATGAGGCC	CGTCAGAGTC	AAGAGATGTC	ATCCCCCAG	GGTCTCCAAG	GCATTTCCAC	4020
	ACTATTGGTG	GCACCTGGAG	GACATGCACC	AAGGCTTGCC	AGAGCCAACA	GGAAGTGAGC	4080
75	CCAGAGCATG	GCATATGACC	ATCACCCTGCT	GATGGTGGCC	TGCTGTGCTC	GGTGCCAACA	4140
	GGGGCATCCC	GGCCGCTACC	CCTCCAGACA	GGAAGCATGG	GTGTGCCCCA	AGACCTGTGC	4200
	GGTGCTCCTG	TGAGTGGCCT	CCAGATGTCT	TTGTGATAG	GCACAAGTGG	GCCAGGGCTG	4260
	GAGGGAGGTG	GGAAACCTCA	TCATCCGGTG	GGCCCTGCCA	ATCTTAACCC	AGAACCCTTA	4320
	GGTATTCTCT	CGAGTAGCCA	TGACATTGGA	GCACCTTCTT	CTCCAGCCAG	AGGCTGACCT	4380
	GAGGGCCACT	GTCTCAGAT	GACACACCC	AGGAGCACCC	TAGGTGAGGG	GTGAGGGCCC	4440
	CCTTATGTTA	AGCTCTTGCC	TCTTCTTTC	TCCCATCAGA	TGGGTGGAT	GGAGCCATTG	4500
80	GCCTCCTTTT	CTTCAGCGGG	CCCTTCAACC	TCTCTGCACC	ATGTTGTCTG	GCTGAGGAGC	4560
	TACTAGAAAA	GCTGAGTGGA	GTCTCCTTTC	CAACAGGATG	ATGCATTTCG	TCAATTCTCA	4620
	GGGCTGGAAT	GAGCCGGCTG	GTCCCCCAGA	AAGCTGGAGT	GGGGTACAGA	GTTCAAGTTT	4680

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CCTCTCTGTT TACAGCTCCT TGACAGTCCC ACGCCCATCT GGAGTGGGAG CTGGGAGTTA 4740
GTGTTGGAGA AGAAACAACA AAAGCCAATT AGAACCCTA TTTTAAAAA GTGCTTACTG 4800
TGCACAGATA CTCTTCAAGC ACTGGACGTG GATTCTCTCT CTAGCCCTCA GCACCCCTGC 4860
GGTAGGAGTG CCGCCTCTAC CCACTTGTGA TGGGGTACAG AGGCACCTGC TCTTCTGCAT 4920
GGTGTTCAT AGGCTGGGAG TTTTATTAT CTCTTCAAAC TTTGTACAAG AGCTCATGGC 4980
TTGTCTTGGG CTTCGTCTAT TAAACCAAAG GAAATGGAAG CCATTCCCCT GTTGCTCTCC 5040
TTAGTCTTGG TCATCAGAAC CTCACCTGGT ACCATATAGA TCAAAAGCTT TGTAAACCACA 5100
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TGGGCTGTAT GTATATTGTT CTTCCTCCTT AGAATTAGA GATACAAGAG TTCTACTTAG 5220
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GCCCCAGAT CCAACAGTCA GAACTGAATC TGCCTTGTG GGAAGCCAGC AGTGGCCTTG 5460
GGAAGGAAGC CATGGCTGTG GTTCAGAGAG GGTGGGCTGG CAAGCCACTT CCGGGGAAAA 5520
CTCCTCCGC CCCAGGTTTC TTCTTCTCTT AAGGAGAGAT TGTCTCACC AACCCGCTGC 5580
CTTCATGCTG CTTCCTTCAAG TAGATCATGT TTGCCTTGCT TAGAGAATTA CTGCAATCA 5640
GCCCCAGTGC TTGGCGATGC ATTTACAGAT TTCTAGGCC TCAGGGTTT GTAGAGTGTG 5700
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Seq ID NO: 410 Protein sequence
Protein Accession #: BAB84587.1

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1 11 21 31 41 51
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FQGLDSLESL LLSSNQLLQI QPAHFSQCSN LKELQLHGNH LEYIPDGAFF HLVLTKLNL 180
GKNSLTHISP RVFQHLGNLQ VLRLYENRLT DIPMGTFDGL VNLQELALQQ NQIGLLSPGL 240
FHNHNLQRL YLSNNHISQL PPSIFMLQPO LNRLTLFGNS LKELSLGIFG PMPNLRRLWL 300
YDNHSSLPD NVFSLNLRLQ VLILSRNQIS FISPAGFNGL TELRELSLHT NALQDLGNV 360
FRMLANLQNI SLQNNRLRQL PGNIFANVNG LMAIQLNQNG LENLPLGIFD HLGKLCBLRL 420
YDNPHRCDS ILPLRNWLL NQPRILGTDV FVCFSPANVR GQSLIINNV VAVPSVHVPE 480
VPSYPETPHY PTPSPYDDT SVSSTTELT FVEDYDLTT IQVTDPRSVM GMTQAQSGLA 540
IAATVIGIVA LACSLAACVG CCCCCKRSQA VLMQMKAPNE C

Seq ID NO: 411 DNA sequence
Nucleic Acid Accession #: XM_098151
Coding sequence: 1..447

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TCTGGAGTGG GAGCTGGGAG TCAGTGTGGG AGAAGAAACA ACAAAAGCCA ATTAGAACCA 180
CTATTTTAA AAGTGTCTTA CTGTGCACAG ATACTCTTCA AGCACTGGAC GTGGATTCTC 240
TCTTAGCCCC TCAGCACCCC TGCGGTAGGA GTGCCGCTC TACCCACTTG TGATGGGGTA 300
CAGAGGCACT TGCTCTTCTG CATGGTGTTC AATAGGCTGG GAGTTTATT TATCTCTTCA 360
AACTTTGTAC AAGAGCTCAT GGCTTGTCTT GGGCTTCTGT CATTAAACCA AAGGAAATGG 420
AAGCCATTC CCTGTGCTC TCCTTAG

Seq ID NO: 412 Protein sequence
Protein Accession #: XP_098151

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Seq ID NO: 413 DNA sequence
Nucleic Acid Accession #: NM_002658.1
Coding sequence: 77..1372

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TGGAGGAACA TGTGTGTCCA ACAAGTACTT CTCCAACATT CACTGTGTGA ACTGCCCAA 240
GAAATTCGGA GGCAGCACT GTGAAATAGA TAAGTCAAAA ACCTGCTATG AGGGGAATGG 300
TCACTTTTAC CGAGGAAAGG CCAGCACTGA CACCATGGGC CGGCCCTGCC TGCCCTGGAA 360
CTCTGCCACT GTCCTTCAGC AAACGTACCA TGCCACAGA TCTGATGCTC TTCAGCTGG 420
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GCAGGTGGGC CTAAAGCCGC TTGTCCAAGA GTGCATGGTG CATGACTGCG CAGATGGAAA 540
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CCGCTTTAAG ATTATTGGGG GAGAAATCAC CACCATCGAG AACGAGCCCT GGTTTGCGGC 660
CATCTACAG AGGCACCGGG GGGGCTCTGT CACTACGTG TGTGGAGGCA GCCTCATCAG 720
CCCTTGCTGG GTGATCAGCG CCACACTG CTTCATTGAT TACCCAAAGA AGGAGGACTA 780
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GGTGGAAAC CTATCTCTAC ACAAGGACTA CAGCGCTGAC ACGCTTGCTC ACCCAACGA 900
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 20 ATCCCTTCCT TTTAGCCTAG TTCATCCAAT CCTCACTGGG TGGGGTGAGG ACCACTCCTT 2220
 ACACCTGAATA TTTATATTTT ACTATTTTIA TTTATATTTT TGTAATTTTA AATAAAAGTG 2280
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Seq ID NO: 414 Protein sequence
 Protein Accession #: NP_002649.1

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 30 YCRNPDNRER PWCVQVGLK PLVQECMVHD CADGKKPSSP PEELKFCQCG KTLRPRFKII 180
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 RSRINSNTQG EMKFEVENLI LHKDYSDATL AHNHDIALLK IRSKEGRCAQ PSRTIQTICL 300
 PSMYNDPQFG TSCSITGFGK ENSTDYLYPE QLKMTVVKLI SHRECCQPHY YGSEVTTKML 360
 35 CAADPQWKTD SQCGDSGGPL VCSLQGRMTL TGI VSWGRGC ALKDKPGVYT RVSHFLPWIR 420
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Seq ID NO: 415 DNA sequence
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 AAGAGAAGAT GGGCTCCAAT TCCTTGTTCT ATGCTAGAAA ACTCCTTGGG TCCTTTTCCA 660
 55 CTTTTCCTTC AACAGGTTCA ATCTGACACG GCCCAAACT ATACCATATA CTATTCCTCA 720
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 70 AGCACAGCAA CAGTTACTGT TAATGTAGAA GATCAGGATG AGGCGCTCTG GTGTAAACCT 1620
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5 TCAGGAATCA AAAACGGAGG TCAGGAGACC ATCGAAATGG TGAAAGGAGG ACACCAGACC 2580
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 15 AATTAAGTGT TCATGTGGTG CTGGGAACT GTTGTTTTCC TGAACATCTA AAGTGTGTAG 3360
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Seq ID NO: 416 Protein sequence
 Protein Accession #: NP_077740.1

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 25 KKRHTKERVL RRAKRRWAPI PCSMLENSLG PFPLFLQQVQ SDTAQNYTII YSIRPGVDQ 180
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 PIFTEETTYF TIFENCVRGT TVGQVCATDK DEPDTHMTRL KYSIIGQVPP SPTLFSMHPT 300
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 30 TVSVVENTVD VEILRVTVED KDLVNTANWR ANYTILKQNE NGNFKIVTDA KINEGVLCVV 420
 KPLNVEEKQS MILQIGVUNE APFSREASPR SAMSTATVTY NVEDQDEGPE CNPPIQTVRM 480
 KENAEVGTTS NGYKAYDTRP RSSSGIRYKK LTDPTGWTI DENTGSIKVF RSLDREAETI 540
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 35 VTSLDVTLCD CITENDCTHR VDPRIIGGGV QLQKWLAI LGLIALLFICI LPTLVCGASG 720
 TSQKPKVIPD DLAAQNLIVS NTRAPGDDKV YSANGPTTQT VGASAQGVCG TVSGIKNGG 780
 QTIEMVKGG HQTESSCRGA GHHTLDSCR GHTEVDNCR YTYSEWHSFT QPRLGEKVYL 840
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Seq ID NO: 417 DNA sequence
 Nucleic Acid Accession #: NM_004949.1
 Coding sequence: 202..2745

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 20 ATTATTTTAT TCTTGAATG TGACCTTTTC ACTGTGCAA GGGAGATTTC TAGCCAGGCA 3480
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Seq ID NO: 418 Protein sequence
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 30 KRRHTKEKVL RRAKRRWAPI PCSMLENSLG PFPLFLQVQV SDTAQNYTII YSIRGPGVDQ 180
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 40 TSKQPKVIPD DLAQQLIVS NTEAPGDDRV YSANGFTTQT VGASAQGVCG TVSGIKNGG 780
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Seq ID NO: 419 DNA sequence
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 50 ACCCAGGGGA CAATGCCACA CCAGAGCAGA TGGCCAGTA TGCAGCTGAT CTCCTAGAT 180
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 55 AATGCCACCT TCTGCTCTCT ACGACTCCAT GAGCAGCGCC AGCCCCAGTC TCCCCTCTG 360
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 Protein Accession #: NP_002713.1

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 75 CTATCAAAGA GAGAAACATA ACGGCGGTAG AGAGGAAGTC ACCAAGTTG CCACTCAGAA 180
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 80 CCTGGAGCAC GGAGCGCTGA CCTCCGCGC CTGCCACCTC TGCAAGTGCA TCTTCGGGC 480
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Seq ID NO: 422 Protein sequence
Protein Accession #: NP_115934.1

1 11 21 31 41 51
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SECGALEHGA WTLRACHLCR CIFGALHCLP LQTPDRCDPK DFLASHAHGP SAGGAPSLLL 180
LLPCALLHRL LRPDAPAHPR SLVPSVLQRE RRPCGRPLG HRL

Seq ID NO: 423 DNA sequence
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Coding sequence: 72..467

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CGGACACGGA GTGCAGCCAC CCTATCTCCA TGGCTGTGGC CCTTCAGGAC TACATGGCCC 240
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Seq ID NO: 424 Protein sequence
Protein Accession #: NP_006524.1

1 11 21 31 41 51
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Seq ID NO: 425 DNA sequence
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Seq ID NO: 426 Protein sequence
Protein Accession #: NP_543146.1

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TSRTKLSSIT SEATGNESH P YLNKDGSRQK IHAGQMGEND SPPAWAIVIV VLVAVILLVV 180

FLGLIFLVSY MMRTRRLTQ NTQYNDAEDE GGPNSYPVYL MEQNLGMGQ IPSPR

Seq ID NO: 427 DNA sequence

Nucleic Acid Accession #: XM_069480.1

Coding sequence: 1..4383

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1 11 21 31 41 51

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Seq ID NO: 428 Protein sequence
Protein Accession #: XP_069480.1

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Coding sequence: 1..10674

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	TTCTTTGTGA	AATGCCCAACC	TGGATTTTGT	GGTACCCGAT	GTGGAAGAA	CGTCGATGAG	4020
	TGCTCTCAGT	AGCCATGCAA	AAATGGAGCT	ACCTGTAAAG	ACGGTGCCAA	TAGCTTCAGA	4080
	TGCCCTGTGT	CAGCTGGCTT	CACAGGATCA	CACGTGTGAAT	TGAACATCAA	TGAATGTGAG	4140
	TCTAATCCAT	GTAGAATACA	GGCCACCTGT	GTGGATGAAT	TAAATTCATA	CAGTTGTAAA	4200
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	GATTTTGAAG	TTTCTGGCAT	CTATGATAT	GTCTGCTAG	ATGGCATGCT	CCCATCTCTC	4320
	CATGCTCTAA	CCTGTACCTT	CTGGATGAAA	TCCTCTGACG	ACATGAACCTA	TGGAACACCA	4380
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	TTCTGTACAG	ATAATGGGAG	CTGGAACGGC	GTTCACCAT	CCTGCCTTGA	TGTCGATGAG	5220
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Seq ID NO: 430 Protein sequence
Protein Accession #: FGENESH predicted

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LHARENSTKV VFLITDGYSN GGDPRPIAAS LRDSGVEIFT FGIWQGNIRE LNDMASTPKE 240
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 Nucleic Acid Accession #: FGENESH predicted
 Coding sequence: 1..390

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 C A T C T T T C A A C G C C T T A T A A G T T G C T G C A G A C C A G C T T C T A A C T G G G T C C A T A C C T G G A 1920
 A C A A C A T C G T G G G A A A G A T A T A A A G A C A T G G T A G A T C C T A A A A A G A G G C T G A C C A T G A 1980
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 A T A G G A A A A T G T A C A T A C T A T G T T C A T G A T A G T G T G A T T T T T C A C A T T A A G C A G A A 2160
 T G C A A T A T A A A A A T G T A A T C T C T T A A T T C T A G C C A T G T G C T T A T A T A T T T C T T T T A 2220
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 T T G A G T T T T G A G T A C C T C T T T C C C A T A T A C A A T C T T C C T T C C T T C C T A G G T A T T T G G A A G A 2760
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Seq ID NO: 434 Protein sequence
Protein Accession #: NP_009162.1

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 65 L D S Q F A S I E T I T T I Q D L F P K V M K M R V P I T L G C C L V L F L L G L V C V T Q A G I Y W H L I D H F 480
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70 Seq ID NO: 435 DNA sequence
 Nucleic Acid Accession #: M18728.1
 Coding sequence: 51..1085

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 TGTTCCTCTG TTCCAAATTTG ACAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG 2460
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 TAGCTCTATA ACT

Seq ID NO: 436 Protein sequence
 Protein Accession #: AAA59907.1

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 TLQVIKSLDL NEEATGQPHV YPELKPSPIS SNNSNPFVEDK DAVAPTCPEB VQNTTYLWV 180
 45 NGQSLPVSFR LQLSNGNML TLLSVKRNDG GSYECBQNP ASANRSDPVT LNVLYGPDVP 240
 TISPSKANYR PGENLNLSCH AASNPPAQYS WFINGTFQOS TQELFIPNIT VNNSGSGYMCQ 300
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Seq ID NO: 437 DNA sequence
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 Coding sequence: 1355..1657

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 65 GCGTCAAAAG GAACGATGCA GGATCCTATG AATGTGAAAT ACAGAACCCA GCGAGTGCCA 720
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 70 CAGCCACTGG CCTCAATAGG ACCACAGTCA CGATGATCAC AGTCTCTGGA AGTGCTCCTG 1020
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5 CTGACTCATT CTTTATTCTA TTTTAGTTGG TTTGTATCTT GCCTAAGGTG CGTAGTCCAA 1920
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10 TGTTTCTTGT TTCCAATTG ACAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG 2460
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15 Seq ID NO: 438 Protein sequence
Protein Accession #: AAA59908.1

1 11 21 31 41 51
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25 Seq ID NO: 439 DNA sequence
Nucleic Acid Accession #: M18728.1
Coding sequence: 2370..2501

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45 CAGCCACTGG CCTCAATAGG ACCACAGTCA CGATGATCAC AGTCTCTGGA AGTGCTCCTG 1020
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50 ACCCTCAGGC CTGAGGTGTG TGCCACTCAG AGACTTCACC TAACATAGAGA CAGTCAAACT 1320
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GCTGAGACTA AGTTGTAGAA ATTAACAAAT GTGCTGCTTG GTTAAATAGG CTACACTCAT 1860
60 CTGACTCATT CTTTATTCTA TTTTAGTTGG TTTGTATCTT GCCTAAGGTG CGTAGTCCAA 1920
CTCTTGGTAT TACCCTCCTA ATAGTCATAC TAGTAGTCAT ACTCCCTGGT GTAGTGTATT 1980
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65 TCTCACCTAG GTGAGCGCAT TGAGCCAGTG GTGCTAAATG CTACATACTC CAACTGAAAT 2220
GTTAAGGAAG AAGATAGATC CAATTAAAAA AAATTTAAAC CAATTTAAAA AAAAAAAGA 2280
ACACAGGAGA TTCCAGTCTA CTTGAGTTAG CATAATACAG AAGTCCCTC TACTTTAACT 2340
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TGTTTCTTGT TTCCAATTG ACAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG 2460
70 CTATCACTGT ACTTGTAGAG TGGTGTGCT TTAATTCATA AATCACAAT AAAAGCCAAT 2520
TAGCTCTATA ACT

75 Seq ID NO: 440 Protein sequence
Protein Accession #: AAA59909.1

1 11 21 31 41 51
MLTNVPISV LFPSCNLTKP TVLVLYCPGG AITVLVEWCC FNS

80 Seq ID NO: 441 DNA sequence
Nucleic Acid Accession #: NM_002381.2
Coding sequence: 64..1524

1 11 21 31 41 51

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5	CTGCTGCTGC	TGCCCTCGCG	CGCCCCCGAC	CCCGTGGCCC	GCCCGGGCTT	CCGGAGGCTG 180
	GAGACCCGAG	GTCCCGGGGG	CAGCCCTGGA	CGCCGCCCTT	CTCCTGCGCG	TCCGAGCGGC 240
	GCGCCCGCTT	CCGGGACCAG	CGAGCCTGGC	CGCGCCCGCG	GTGCAGGTGT	TTGCAAGAGC 300
	AGACCCCTGG	ACCTGGTGT	TATCATTGAT	AGTTCTCGTA	GCGTACGGCC	CCTGGAATTC 360
	ACCAAAGTGA	AAACTTTTGT	CTCCCGGATA	ATCGACACTC	TGGACATTGG	GCCAGCCGAC 420
	ACCGGGGTGG	CAGTGGTGAA	CTATGCTAGC	ACTGTGAAGA	TCGAGTTCCA	ACTCCAGGCC 480
10	TACACAGATA	AGCAGTCCCT	GAAGCAGGCT	GTGGGTGAAA	TCACACCCTT	GTCAACAGGC 540
	ACCATGTGAG	GCCTAGCCAT	CCAGACAGCA	ATGGACGAAG	CCTTCACAGT	GGAGGCAGGG 600
	GCTCGAGAGC	CCTCTCTTAA	CATCCCTAAG	GTGGCCATCA	TTGTTACAGA	TGGGAGGCC 660
	CAGGACACAG	TGAATGAAGT	GGCGGCTCGG	GCCCAAGCAT	CTGGTATTGA	GCTCTATGCT 720
	GTGGGCGTGG	ACCGGGCAGA	CATGGCGTCC	CTCAAGATGA	TGGCCAGTGA	GCCCTATAGG 780
15	GAGCATGT	TCTACGTGGA	GACCTATGGG	GTCAATGAGA	AACTTTCTCT	TAGATTCCAG 840
	GAAACCTTCT	GTGCGCTGGA	CCCCTGTGTG	CTTGGAACAC	ACCAGTGCCA	GCACGTCTGC 900
	ATCAGTGATG	GGGAAGGCAA	GCACCACTGT	GAGTGTAGCC	AAGGATACAC	CTTGAATGCC 960
	GACAAAGAAA	CGTGTCTCAG	TCTTGATAGG	TGTGCTCTTA	ACACCCACGG	ATGTGAGCAC 1020
	ATCTGTGTGA	ATGACAGAAG	TGGCTCTTAT	CATTGTGAGT	GCTATGAAGG	TTATACCTTG 1080
20	AATGAAGACA	GGAAACTTGG	TTCAGCTCAA	GATAAATGTG	CTTTGGGTAC	CCATGGGTGT 1140
	CAGCACATTT	GTGTGAATGA	CAGAACAGGG	TCCCATCATT	GTGAATGCTA	TGAGGGCTAC 1200
	ACTCTGAATG	CAGATAAAAA	AACATGTTCA	GTCCGTGACA	AGTGTGCCCT	AGGCTCTCAT 1260
	GGTTGCCACG	CAAAATTTGT	GAGTGATGGG	GCCGCATCCT	ACCACTGTGA	TTGCTATCCT 1320
	GGCTACACCT	TAAATGAGGA	CAAGAAACAA	TGTTCAAGCCA	CTGAGGAAGC	ACGAAGACTT 1380
25	GTTTCCACTG	AAGATGCTTG	TGGATGTGAA	GCTACACTGG	CATTCCAGGA	CAAGGTGAGC 1440
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	GAATATGGAC	AAATACATCG	TTAAATTTGCT	CAAATTTCTC	ACCTGAAAAAT	GTGGACAGCT 1560
	TGGTGACTAT	AAATCTTCTG	CATTCTTTTG	CACACCTGTT	ATTGCCAATG	TTCTGTCTAA 1620
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30	CTGCAGATC	AGCATGATTT	TTCCAAGGAA	ATACATATGC	AGATACCTTAT	TAAGAGCAAA 1740
	CTTTAGTGTG	TCTAAGTTAT	GACTGTGAAA	TGATTGGTAG	GAAATAGAAT	GAAAGTTTAA 1800
	GTGTTTCTTT	ATCTACTAAT	TGAGCCATTT	AAATTTTAAA	TGTTTATATT	AGATAACCAT 1860
	ATTCAACAAT	GAAACTTTAG	GTCTAGTTTC	TTTTGATAGT	ATTTATAATA	TAAATCAATC 1920
	TTATTACTGA	GAGTGCAAA	TGTACAAGGT	ATTTACACAT	ACAACTTCAT	ATAACTGAGA 1980
35	TGAATGTAAT	TTTGAACTGT	TTAACACTTT	TTGTTTTTTG	CTTATTTTGT	TGGAGTATTA 2040
	TGGAAGATGT	GATCAATAGA	TGTAAATACA	CATATCTAAA	AATAGTTAAC	ACAGATCAAG 2100
	TGAACATTAC	ATTGCCATTT	TTAATTCATT	CTGGTCTTTG	AAAGAAATGT	ACTACTAAAG 2160
	AGCACTAGTT	GTGAATTTAG	GGTGTAAAC	TTTTTACCAA	GTACAAAAAT	CCCAAATTCA 2220
	CTTTATTTATT	TTGCTTCAGG	ATCCAAGTGA	CAAAATTATA	TATTTATAAA	ATTGCTATAA 2280
40	ATCCGACAAA	TCTAATGTG	TCTTTTTAAT	GTTAGTGATC	CACCTGCCTC	AGCCTCCCAA 2340
	AGTGCTGGGA	TTACAGGCTT	GAAAGTCTAA	CTTTTTTTTA	CTTATATATT	TGATACATAT 2400
	AATTCCTTTG	GCTTTGAAAC	TTGCAACTTT	GAGAACAAAA	CAGTCCTTTA	AATTTTGAC 2460
	TGCTCAATTC	TGTTTTCTGT	TTGCAATGTC	TTAATATAA	TAAAGTTAT	TACCTTTACA 2520
45	TATTATCATG	TCTATTTTGG	ATGACTCATC	AATTTGTGCT	ATTAAAGATA	TTTCTTTAAA 2580
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Seq ID NO: 442 Protein sequence
Protein Accession #: NP_002372.1

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	PASGTSEFGR	ARGAGVCKSR	PLDLVFIIDS	SRSVRPLEFT	KVKTFVSRIL	DTLDIGPADT 120
	RVAVVNVAST	VKIEFQLQAY	TDKQSLKQAV	GRITPLSTGT	MSGLAIQTAM	DEAPTEVAGA 180
55	REPSSNIPKV	AIIVTDGRPQ	DQVNEVAARA	QASGIELYAV	GVDRADMASL	KMMASEPLBE 240
	HVFVETYGW	IEKLSRRPQE	TFCALDPCVL	GTHQCQHVCI	SDGBGKHICE	CSQGYTLNAD 300
	KKTCALDRIC	ALNTHGCEHI	CVNDRSGSYH	CBCEGYTILN	EDRKTCSAQD	KCALGTHGCO 360
	HICVNDRTGS	HHCECYEGYT	LNADKKTCSV	RDKCALGSHG	CQHICVSDGA	ASYHCDYCPG 420
60	YTLNEDKKTC	SATEEARRLV	STEDACGCEA	TLAFQDKVSS	YLQRLNTRLD	DILEKLKINE 480
	YGQIHR					

Seq ID NO: 443 DNA sequence
Nucleic Acid Accession #: NM_016639.1
Coding sequence: 40..429

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70	GAGCAAGCGC	CAGGCACCGC	CCCTCTGCTC	CGCGGCAGCT	CCTGGAGCGC	GGACCTGGAC 180
	AAGTGACATG	ACTGCGCGTC	TTGCAGGGCG	CGACCGCACA	GCGACTTCTG	CCTGGGCTGC 240
	GCTGCAGCAC	CTCTGCCCC	CTTCGGGCTG	CTTTGGCCCA	TCCTTGGGGG	CGCTCTGAGC 300
	CTGACCTTGG	TGCTGGGGCT	GCTTTCTGGC	TTTTTGGTCT	GGAGACGATG	CCGAGGAGA 360
	GAGAAGTTCA	CCACCCCAT	AGAGGAGACC	GGCGGAGAGG	GCTGCCACGC	TGTGGCGCTG 420
75	ATCCAGTGAC	AATGTGCCCT	CTGCCAGCGG	GGGCTCGCCC	ACTCATCATT	CATTATCCCA 480
	TTCTAGAGCC	AGTCTCTGCC	TCCAGACGCG	GGCGGGAGCC	AAGCTCCTCC	AACCACAAGG 540
	GGGGTGGGGG	GCGGTGAATC	ACCTCTGAGG	CCTGGGCCCA	GGGTTCAGGG	GAACTTCCA 600
	AGGTGCTGCG	TTGCCCTGCC	TCTGGCTCCA	GAACAGAAAG	GGAGCCTCAC	CTGGCTCAC 660
	ACAAACACGC	TGACACTGAC	TAAGGAACCT	CAGCATTTGC	ACAGGGGAGG	GGGTGCCCC 720
80	CCTTCTCTAG	GACCTGGGGG	CCAGGCTGAC	TTGGGGGGCA	GACTTGACAC	TAGGCCCCAC 780
	TCACTCAGAT	GTCCTGAAAT	TCCACCACGG	GGGTCAACCT	GGGGGGTTAG	GGACCTATT 840
	TTAACACTAG	GGGCTGGCCC	ACTAGGAGGG	CTGGCCCTAA	GATACAGACC	CCCCCACTC 900
	CCCAAGCGG	GGAGGAGATA	TTTATTTTGG	GGAGAGTTTG	GAGGGGAGGG	AGAATTTATT 960

AATAAAAGAA TCTTTAACTT TAAAAAATAA AAAAAAAA

Seq ID NO: 444 Protein sequence
Protein Accession #: NP_057723.1

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GCPAVALIQ						

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Seq ID NO: 445 DNA sequence
Nucleic Acid Accession #: AF322916.1
Coding sequence: 50..4300

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CAGCGCGCAT	GACAGCAGAT	GGAATAAATA	TGATGACCGA	TTGATGAAAG	CAGCAGAAAG	180
GGGGGATGTA	GAAAAAGTGA	CCTCAATCCT	TGCTAAAAAG	GGGGTCAATC	CAGGCAAACT	240
AGATGTGGAA	GGCAGATCTG	TCTTCCATGT	TGTGACCTCA	AAGGGGAATC	TTGAGTGTIT	300
GAATGCCATC	CTTATACATG	GAGTTGATAT	TACAACCACT	GACACTGCAG	GGAGAAATGC	360
TCTTCACTTG	GCTGCTAAGT	ATGGACATGC	ATTGTGCTCA	CAAAAACCTC	TACAGTACAA	420
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TGTAAGAGGG	CGGACACCAC	TTGTTCTGGC	TACTCAGATG	AGTAGGCCAA	CAATATGTCA	600
ACTGCTGATA	GATAGAGGAG	CGGATGTTAA	TTCCAGAGAC	AAACAAAACA	GAACTGCCCT	660
CATGCTAGTG	TGCGAATATG	GTTGCAGAGA	TGCAGTAGAA	GTCTTAATTA	AAAATGGTGC	720
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CAATCTGGAC	ATTCTAACCT	TGTTGAAGAC	TGCATCGGAA	AATACCAACA	AAGGGAGAGA	840
ACTTTGGAAG	AAAGGACCAT	CTTTGCAACA	GCGAAATTTG	ACACACATGC	AAGATGAAGT	900
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GAGAGAAAAG	CTGAAGTCCC	TTTGGCAGC	TAAAGAAAAG	CAACATGAAG	AAAGCTTAAG	1140
GACTATTGAG	GCTCTGAAAA	ATAGATTTAA	ATATTTTGAG	AGTGATCATT	TAGGATCAGG	1200
AAGTCATTTC	AGTAACCGAA	AAAGAATAT	GCTTCTTAAA	CAAGGTCAGA	TGTATATGGC	1260
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GAAAGGAGAA	AAGGTCACAG	AGATGGAAGG	CCAGGCAAAA	GAATTTGTGAG	CGAAGTTGGC	1920
CCTTTCCATT	CCAGCTGAAA	AATTTGAAAA	CATGAAGAGC	TCATTATCAA	ATGAAGTGAA	1980
TGAGAAAGTA	AAAAATATTAG	TAGAAATGGA	AAGAGAACAT	GAAAAATCAC	TTAGTGAAT	2040
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CACATCTGAA	AACACTAACT	TGAAGAAGAT	GATGAGTAAT	CAGTATGTGC	CAGTTAAAAC	2640
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TGCCGAATTT	AAAGCCCAGA	AGAAGGAGCT	CGACACAATA	CAAGATGCA	TTAAGGTAAA	3000
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CAAAAGAGAG	GAAATATCTG	CAAAAGATGA	GAAGGAATTA	CTGCATTTC	GCATTGAGCA	3900
AGAAATTAAG	GATCAGAAAG	AACGATGTGA	TAACTCCTTA	ACAACAATCA	CAGAGTTACA	3960
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 Seq ID NO: 446 Protein sequence
 Protein Accession #: AAG49577.1

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 1 11 21 31 41 51
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 TICQLLIDRG ADVNSRDQKN RTALMLGCEY GCRDAVEVLI KNGADISLID ALGHDSSYYA 240
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 IENEDLKERL RKIQEQEIRIL LDKVNGLIQLQ LNEEVMVADD LESEREKLKS LLAAKEKQHE 360
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 Seq ID NO: 447 DNA sequence
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 Coding sequence: 29..664

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 CAGAGCATT GAAGGTGGAG CTGATGAAGG ACTTCAGCAT TTGGGTCCCT TTGGCAACAT 300
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 TTTGATTTTG ATTATGTAGT TCATCCAGCC CTTGGGCATT GTTATACACC AGTAAAGAAG 1080
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 Seq ID NO: 448 Protein sequence
 Protein Accession #: NP_003011.1

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 PVGKTDDGCL ENTPTDAEFS REFQLHQHLE DPEHDYPLGL KWNKKLLYEK MKGGERRKRR 180
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 Coding sequence: 79..2538

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 CCTGCGGAAT CGGCCGAGAT GGGGTCTGGC GCGCGCTTTC CCTCGGGGAC CCTTCTGTGC 120
 CGGTGTTGCG TGTGCTTGG CCTGTGGGCG CCAGTCTCTG GTGCGCGCGC GCCAGGCTTT 180

5 CAACAGACCT CACATCTTTC TTCTTATGAA ATTATAACTC CTGGGAGATT AACTAGAGAA 240
 AGAAGAGAAG CCCCTAGGCC CTATTCAAAA CAAGTATCTT ATGTATTATCA GGCTGAAGGA 300
 AAAGAGCATA TTATTCACTT GGAAAGGAAC AAAGACCTTT TGCCCTGAAGA TTTTGTGGTT 360
 TATAGTTACA ACAAGGAAGG GACTTTAATC ACTGACCATC CCAATATACA GAATCATTGT 420
 CATTATCGGG GCTATGTGGA GGGAGTTTCA AATTCATCCA TTGCTCTTAG CGACTGTTTT 480
 GGACTCAGAG GATTGCTGCA TTTAGAGAAT GCGAGTTATG GGATTGAACC CCTGCAGAAC 540
 AGCTCTCATT TTGAGCACAT CATTATCGA ATGGATGATG TCTACAAAGA GCCTCTGAAA 600
 TGTGGAGTTT CCAACAAGGA TATAGAGAAA GAACTGCAAA AGGATGAAGA GGAAGAGCCT 660
 10 CCCAGCATGA CTAGAGTACT TCGAAGAAGA AGAGCTGTCT TGCCACAGAC CCGGTATGTG 720
 GAGCTGTTC A TTGCTGTA CAAGGAAAGG TATGACATGA TGGGAAGAAA TCAGACTGCT 780
 GTGAGAGAAG AGATGATTCT CCTGGCAAAC TACTTGGATA GTATGTATAT TATGTTAAAT 840
 ATTCGAATTG TGCTAGTTGG ACTGGAGATT TGGACCAATG GAAACCTGAT CAACATAGTT 900
 GGGGGTCTGT GTGATGTGCT GGGGAACTTC GTGCAGTGGC GGGAAAAGTT TCTTATCACA 960
 15 CGTCGGAGAC ATGACAGTGC ACAGCTAGTT CTAAAGAAAG GTTTTGGTGG AACTGCAGGA 1020
 ATGGCATTGT TGGGAACAGT GTGTTCAAGG AGCCACGCAG GCGGGATTAA TGTGTTTGA 1080
 CAAATCACTG TGGAGACATT TGCTTCCATT GTTGTCTCATG AATTGGGTCA TAATCTTGA 1140
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 20 TTAATAAAG GAGGAACTCG CCTTCTTAAT ATTCCAAAGC CTGATGAAGC CTATAGTGCT 1320
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 GAATGTGAAT TGGACCTTGT CTGCGAAGGA AGTACCTGTA AGCTTAAATC ATTTGCTGAG 1440
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 GGAAAAACCA TGAGTGTGTA TGTTCACAG TACTGCAATG GTTCTTCTCA GTTCTGTGAG 1560
 25 CCAGATGTTT TTATTTCAGAA TGGATATCCT TGCCAGAAATA ACAAGCCCTA TTGCTACAC 1620
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 GCCCCCAAG ATTGTTTCA TGAAGTGAAT TCTAAAGGTG ACAGATTGG CAATTGTGGT 1740
 TTCTCTGGCA ATGAATACAA GAAGTGTGCC ACTGGGAATG CTTTGTGTGG AAAGCTTCAG 1800
 TGTGAGAAAT TACAAGAGAT ACCTGTATTT GGAATTGTGC CTGCTATTAT TCAAGCGCT 1860
 30 AGTCGAGGAG CAAATGTGTG GGGTGTGGAT TTCCAGCTAG GATCAGATGT TCCAGATCCT 1920
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 GTAGATGCTT CTGTTCTGAA TTATGACGTG GATGTTTACA AAAAGTGTCA TGGACATGGG 2040
 GTATGTAAAT GCAATAAGAA TTGTCACTGT GAAATGGCT GGGCTCCCC AAATGTGTAG 2100
 ACTAAGAGAT ACGGAGGAAG TGTGGACAGT GGACCTACAT ACAATGAAAT GAATACTGCA 2160
 35 TTGAGGGAGC GACTTCTGGT CTCTTCTTTC CTAATTGTTC CCTTATTGT CTGTGCTATT 2220
 TTTATCTTCA TCAAGAGGGA TCAACTGTGG AGAAGCTACT TCAGAAAGAA GAGATCACAA 2280
 ACATATGAGT CAGATGGCAA AAATCAAGCA AACCTTCTA GACAGCCGGG GAGTGTCTCT 2340
 CGACATGTTT CTCCAGTGAC ACCTCCGAGA GAAGTTCCTA TATATGCAAA CAGATTGCA 2400
 GTACCAACCT ATGCAGCCAA GCAACCTCAG CAGTTCCTAT CAAGGCCACC TCCACCACAA 2460
 40 CGAAAGATG CATCTCAGG AAACTTAATT CCTGCCCGTC CTGCTCTGTC ACCTCCTTTA 2520
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 45 CATCATGAA TAACTCTTAT TCAGTCAATG GTGAGGTTAA TGCACTAATC ATGGATTITT 2820
 TGAAATGTT ATTGCACTGA TTCTCAAATT AACTGTATTG GTGTAAGATT TTTGTCAAT 2880
 AGTGTTTAAG TGTTATTCTG AATTTTCTAC CTTAGTTATC ATTAATGTAG TTCTCATTG 2940
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 TTTTTCATCA TGCAAGAAAT AATAATCAT ATACTCTAGA ATCTTGTCTG TCACCTACTA 3060
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 55 GGCATATAA AAGCAGGAGC AATTATAAAA TCTTCAATCA ATTGAACCTT TACAAAAACA 3420
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 AGAATGTTTA CATTTACTAA GGTGTGCTGG GTCATGTAAA ATATTAGACA CTAATATTTT 3540
 CATAGAAATT AGGCTGGAGA AAGAAGGAAG AAATGGTTTT CTTAAATACC TACAAAAAAG 3600
 TTAATGTGGT ATCTATGAGT TATCATCTTA GCTGTGTTAA AAATGAATTT TTAATATGGC 3660
 60 AGATATGATA TGGATCGTAA AATTTAAGC ACTAAAAAT TTTTCAATC CTTTCAAT 3720
 AAATTTAAT AATAGTTTAA TTAACGAAT TTCAATAGTT TTTTAAAGT GTTTTGGTT 3780
 TGTGTATATA TACATATACA AATACAACAT TTACAATAAA TAAATACTT GAAATCTCA 3840
 AAAAAAAAAA AAAAAAAAAA AAAAA

Seq ID NO: 450 Protein sequence
 Protein Accession #: NP_003807.1

65
 1 11 21 31 41 51
 70 MSGARFPSSG TLRVRWLLLL GLVGPVLGAA RFGPQQTSHL SSYEIITPWR LTRERREAPR 60
 PYSKQVSYVI QAEGKEHIIH LERNKDLLPE DFVVTYNKE GLITDHPNI QNHCHYRGYV 120
 EGVHNSIAL SDPCPLRGLL HLENASYGIE PLQNSSHFEE IYRMDVYK SPLKCVSNK 180
 DIEKETAKDE EEEPPSMQL LRRRAVLPO TRYVELFIV DKERYDMGR NQTAVREMI 240
 LLANYLDSMY IMLNIRIVLV GLEIWTNGNL INIVGGAGDV LGNFVQWREK FLITRRRHS 300
 75 AQLVLKKGFG GTAGMAFVGT VCSRHAGGI NVFQITVET PASIVAHELH HNLGNHDDG 360
 RDCSCGAKSC IMNSGAGSSR NFSSCSAEDF EKLTLNKGGM CLNIPKPEDE AYSAPSCGNK 420
 LVDAGEBCDC GTFPKECELD CCEGSTCKLK SFAECAYGDC CKDCRFLPGG TLCKRGKTS 480
 DVPEYCNSS QFQDPDFVIQ NGYPOQNNKA YCYNMGQYY DAQCQVIFGS KAKAAPKDCP 540
 IEVNSKGRDF GNCGFSGNEY KKCATGNALC GKLQCEVQBE IPVFGIVPAI IQTPSRGKTC 600
 80 WGVDFQLGSD VPDGPMVNEG TKCGAGKICR NFQCVDAVL NYDCDVQKCC HGHGVCNSNK 660
 NCHCENGWAP PNCETKGYGG SVDSGPTYNE MNTALRDGLL VFFFLIVPLI VCAIFIFIKR 720
 DQLWRSYFRK KRSQTYESDG KNQANPSRQP GSVPRHVSFV TPPREVPYIA NRPVAPVTYAA 780
 KQPQKPSRP PPPQPKVSSQ GNLIAPAPAP APPLYSST

Seq ID NO: 451 DNA sequence
Nucleic Acid Accession #: NM_016650.1
Coding sequence: 196..789

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5 1 11 21 31 41 51
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AATAAGTCAA ATATACTTGG AGCTTTAAAA ATTAAAAGGA GAGAGATTTC AGCACCTTTT 120
CTGCTGCCAT GACAACCATG CAAGGAATGG AACAGGCCAT GCCAGGGTTG GCCTGGTGTG 180
10 CCCCAGCTGG GAAACATGGC TGTCATACAT TCACATCTGT GGAAGGATTG GCAAGAGAAG 240
TTCTTGAAGG GAGAACCCAA AGTCCTTGGG GTTGTGCAGA TTCTGACTGC CCTGATGAGC 300
CTTAGCATGG GAATAACAAT GATGTGTATG GCATCTAATA CTTATGGAAG TAACCCATT 360
TCCGTGCATA TCGGGTACAC AATTGGGGG TCAGTAATGT TTATTATTTC AGGATCCTTG 420
TCAATTGCAG CAGGAATTAG AACTACAAA GGCCTGGTCC GAGGTAGTCT AGGAATGAAT 480
15 ATCACCAGCT CTGTACTGGC TGATCAGGG ATCTTAATCA ACACATTAG CTGGCGTTT 540
TATTCAATCC ATCACCCCTTA CTGTAACAC TATGGCAACT CAAATAATIG TCATGGGACT 600
ATGTCATCT TAATGGGTCT GGATGGCATG GTGCTCTCT TAAGTGTCT GGAATCTGTC 660
ATTGCTGTGT CCTCTCTGCT CTTTGGATGT AAAGTGCTCT GTTGACCCC TGGTGGGGTT 720
20 GTGTTAATTC TGCCATCACA TTCTCACATG GCAGAAACAG CATCTCCAC ACCACTTAAT 780
GAGGTTTGAG GCCAACAAA GATCAACAGA CAAATGTCC AGAAATCTAT GCTGACTGTG 840
ACACAGAGAG CTCACATGAG AAATTACCAG TATCCAACTT CGATACTGAT AGACGTGTTG 900
ATATTATTAT TATATGTAAT CCAATTATGA ACTGTGTGTG TATAGAGAGA TAATAAATTC 960
AAAATTATGT TCTCATTTT TTCCCTGGAA CTCAATACT CACTTCACTG GCTCTTTATC 1020
GAGAGTACTA GGAGTTAAAT TAATAAATAA TGCATTTAAT GAGGCCACAG GAAAAA
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Seq ID NO: 452 Protein sequence
Protein Accession #: NP_057734.1

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30 1 11 21 31 41 51
| | | | |
MAVIHSHLWK GLQEKFLKGE PKVLGVVQIL TALMSLSMGI TMMCMASNTY GSNPISVHIG 60
YTINGSVMFI ISGSLSIAG IRTTKGLVRG SLGMNITSSV LAASGILINT FSLAFYSFHH 120
PYCNYYGNSN NCHGTMSILM GLDGMVLLLS VLEFCIAVSL SAPGCKVLCC TPGGVVLILP 180
35 SHSHMAETAS PTPLNEV
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Seq ID NO: 453 DNA sequence
Nucleic Acid Accession #: NM_002091.1
Coding sequence: 56..503

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40 1 11 21 31 41 51
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AGTCTCTGCT CTCCCGAGCC TCTCCGGGCG GCTCCAGGG CTTCCTGTCG GGACCATGCG 60
CGGCAGTGAG CTCCGCTGCG TCCTGCTGGC GCTGTCCTC TGCTTAGCCG CCCCGGGGCG 120
45 AGCGGTCCCG CTGCTGCGCG GCGGAGGGAC CGTGTGACC AAGATGTACC CGCGCGGCAA 180
CCACTGGGCG GTGGGCACT TAATGGGGAA AAAGAGCACA GGGGAGTCTT CTTCTGTTTC 240
TGAGAGAGGG AGCTCTGAAG AGCAGCTGAG AGAGTACATC AGGTGGGAAG AAGCTGCAAG 300
GAATTTGCTG GGTCTCATAG AAGCAAAGGA GAACAGAAAC CACCAGCCAC CTCACCCAA 360
GGCCTTGGGC AATCAGCAGC CTTCTGCGGA TTCAGAGGAT AGCAGCAACT TCAAGATGT 420
50 AGGTTCACAA GGCAAAGTTG GTAGACTCTC TGCTCCAGGT TCTCAGCTG AAGGAAGGAA 480
CCCCAGCTG AACAGCAAT GATAATGATG GCCTCTCTCA AAAGAGAAAA ACAAAACCCC 540
TAAGAGACTG AGTTCTGCAA GCATCAGTTC TACGGATCAT CAACAAGATT TCCTTGTGCA 600
AAATATTGA CTATTCTGTA TCTTTCATCC TTGACTAAAT TCGTGATTTT CAAGCAGCAT 660
CTTCTGGTTT AAACCTGTTT GCTGTGAACA ATTGTGAAA AGAGCTCTCC AATTAATGCT 720
55 TTTTATATC TAGGCTACCT GTTGGTTAGA TTCAAGGCC CGAGCTGTTA CCATTACAA 780
TAAAGCTTA AACACAT
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Seq ID NO: 454 Protein sequence
Protein Accession #: NP_002082.1

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60 1 11 21 31 41 51
| | | | |
MRGSELPLVL LALVLCAPR GRAVPLPAGG GTVLTRMYPR GNHNAVGHLM GKKTGESSS 60
VSEKSLKQQ LREYIRWEEA ARNLLGLIEA KENRNHQPQ PKALGNQPS WDSEDSSENF 120
65 DVGSKGKQVR LSAPGSRQDG RNPQLNQ
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Seq ID NO: 455 DNA sequence
Nucleic Acid Accession #: NM_016522.1
Coding sequence: 265..1299

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70 1 11 21 31 41 51
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CTGGCAAAAG CCGAGGCTGG ATTGGGGGA GGAATATTAG ACTCGGAGGA GTCTGCGCGC 120
75 TTTTCTCTC CCCGCGCTC CCGGTGCGG CGGGTTCACC GCTCAGTCCC CGCGCTCGCT 180
CCGACCCCA CCACTCTCT GTGCTGCGG GGGGGCGTGT TGCGGTGCGG CTGCGGAGT 240
TCGGGGAGT TGTGGCTGTC GAGAATGGGG GTCTGTGGGT ACCTGTCTCT GCCCTGGAAG 300
TGCTCTGTGG TCGTGTCTCT CAGGCTGCTG TTCCTGTATC CCACAGGAGT GCCCGTGGC 360
AGCGGAGATG CCACCTTCCC CAAAGCTATG GACAACGTGA CGGTCCGGCA GGGGAGAGC 420
80 GCCACCTCA GTGTCACTAT TGACAACGGG GTCACCGGG TGCGCTGGCT AAACCGCAGC 480
ACCATCTCT ATGCTGGGAA TGACAAGTGG TGCCCTGGATC CTCGCGTGGT CCTTCTGAGC 540
AACACCCAAA CGCAGTACAG CATCGAGATC CAGAACGTGG ATGTGTATGA CGAGGGCCCT 600
TACACCTGCT CGGTGCAGAC AGACAACCAC CCAAGACCT CTAGGGTCCA CCTCATTTGT 660
CAAGTATCTC CCAAAATTGT AGAGATTTCT TCAGATATCT CCATTAAATG AGGGAACAAT 720
ATTAGCCTCA CCTGCATAGC AACTGGTAGA CCAGAGCCTA CGGTACTCTG GAGACACATC 780
```

5 TCTCCCAAAG CGGTGGCTT TGTGAGTGAA GAOGAATACT TGGAAATTC A GGGCATCACC 840
 CGGGAACAGT CAGGGGAGTA CGAGTGACGT GCCTCCAATG ACGTGGCCGC GCCCGTGGTA 900
 CGGAGAGTAA AGGTACCGT GAACATATCCA CCATACATTT CAGAAGCCAA GGGTACAGGT 960
 GTCCCGCTGG GACAAAAGGG GACACTGCAG TGTGAAGCCT CAGCAGTCCC CTCAGCAGAA 1020
 TTCCAGTGGT ACAAGAGTGA CAAAAGACTG ATTGAAGGAA AGAAAGGGGT GAAAGTGGAA 1080
 AACAGACCTT TCCTCTCAAA ACTCATCTTC TTCAATGTCT CTGAACATGA CTATGGGAAC 1140
 TACACTTGGC TGGCCTCCAA CAAGCTGGGC CACACCAATG CCAGCATCAT GCTATTGGT 1200
 CCAGGCGCCG TCAGCGAGGT GAGCAACGGC ACGTCGAGGA GGGCAGGCTG CGTCTGGCTG 1260
 10 CTGCTCTTTC TGTCTTTGCA CCTGCTTCTC AAATTTTGAT GTGAGTGCCA CTCCCCACC 1320
 CGGGAAGGCG TGCCGCCACC ACCACCACCA ACACAACAGC AATGGCAACA CCGACAGCAA 1380
 CCAATCAATC ATATACAAAT GAATATTAGAA GAAACACAGC CTCATGGGAC AGAAATTGA 1440
 GGGAGGGGAA CAAAGAATAC TTTGGGGGGA AAAGAGTTT AAAAAGAAA TTGAAAATTG 1500
 CCTTCAGAT ATTTAGGTAC AATGGAGTTT TCTTTTCCCA AACGGGAAGA ACACAGCACA 1560
 15 CCGCGCTTGG ACCCACTGCA AGCTGCATCG TGCAACCTCT TTGGTGCCAG TGTGGGCAAG 1620
 GGCTCAGCCT CTCTGCCACC AGACTGCCCC CACGTGGAAC ATTCTGAGC TGGCCATCCC 1680
 AAATTCATC AGTCCATAGA GACGAACAGA ATGAGACCTT CCGGCCCAAG CGTGGCGCTT 1740
 CCGGCCCAAG CGTGGCGCTG CCGGCACCTT GGTAGACTGT GCCACCACGG CGTGTGTGT 1800
 GAACGTGAA ATAAAAGAG CAAAAA AAAA

Seq ID NO: 456 Protein sequence
 Protein Accession #: NP_057606.1

1 11 21 31 41 51
 25 MGVCGLFLP WKCLVVSLR LLFLVPTGVP VRSGDATFPK AMDNVTVRQG ESATLRCTID 60
 NRVTRVAMLN RSTILYAGND KWCLDPRVVL LSNQTQYSI BIONVDVYDE GPYTCSVQTD 120
 NHPKTSRVLH IVQVSPKIVE ISSDISINEG NNISLTCIAT GRPBETVTWR HISP KAVGFV 180
 SEDEYLEIQG ITRQSGDYB CSASNDVAAP VRRVKVTVN YPPYISEAKG TGVVPVGKQT 240
 30 LQCEASAVPS AEFQWYKDK RLIEGKKGVK VERNPFLSKL IFPNVSEHDY GNYTCVASNK 300
 LGHTNASIML FPGAVSEVS NGTSRRAGCV WLLPLLVLHL LLKF

Seq ID NO: 457 DNA sequence
 Nucleic Acid Accession #: NM_012261.1
 Coding sequence: 203..1045

1 11 21 31 41 51
 35 GATTGTCTCT GCCAGCAGCT GTCGGTGGCG CGCTCGACAC CGAGTCCTAG CTAGGCGCTC 60
 ACAGAATAAG CGCTCCCTCC CTCGCCCTTC TCTGTCCCCC GCCTCTCGCT CACCCCGGCC 120
 40 CACTCCAGCG GCGACTTTGA GGGATTCCCT CTCTGGCGGC CTCTGCAGCA GCACAGCCGG 180
 CCTCATTCGG GGCACCTGGA GTATGGATCT CCAAGGAAGA GGGGTCCCCA GCATCGACAG 240
 ACTTCGAGTT CTCTGATGT TGTCCATAC AATGGCTCAA ATCATGGCAG AACAAGAGT 300
 GGAATATCTC TCAGGCTCTT CCATTAACCC TGAAGAGAT ATATTGTGG TGGCGGAAAA 360
 45 TGGGACGACG TGTCTCATGG CAGAGTTTGC AGCCAAATTT ATTGTACCTT ATGATGTGTG 420
 GGCCAGCAAG TACGTAGATC TGATCAGAGA ACAGGCCGAT ATCGCATTGA CCGGGGAGCG 480
 TGAGGTGAAG GCGCGCTGTG GCCACAGCCA GTCGGAGCTG CAAGTGTCT GGTGGATCG 540
 CGCATATGCA CTCAAATGC TCTTTGTAAA GGAAGCCAC AACATGTCCA AGGGACCTGA 600
 GCGGACTTGG AGGCTGAGCA AAGTGCACTT TGTCTACGAC TCCTCGGAGA AAACCCACTT 660
 50 CAAAGACGCA GTCTCTCATG GGAAGCACAC AGCCAACTCG CACCACCTCT CTGCTTGGT 720
 CACCCCGCTG GGAAGTCTCT ATGAGTGTCA AGCTCAACAA ACCATTTCAC TGGCCTCTAG 780
 TGATCCGCGA CAGGTAGAAC CCATGATCCT GTCTGGGTTC CACATCCAAC CTTTGACAT 840
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 GGAAGAAACC TTGCCCCGTA TTTTGGGGCT CATCTTGGGC CTGCTCATCA TGGTAACACT 960
 55 CGCGATTATC CACGTCCACC ACAAAATGAC TGCCAAACAG GTGCAGATCC CTCGGGACAG 1020
 ATCCCACTAT AAGCACATGG GCTAGAGGCC GTTAGGCAGG CACCCCTTAT TCCTGTCTCC 1080
 CCAACTGGAT CAGGTAGAAC AACAAAGCA CTTTCCATC TTGTACAGCA GATACACCAA 1140
 CATAGCTACA ATCAACAGG CCTGGGTATC TGAGGCTTGC TTGGCTTGTG TCCATGCTTA 1200
 AACCCACGGA AGGGGAGAGC TCTTTCCGAT TTGTAGGGTG AAATGGCAAT TATTCTCTCC 1260
 60 ATGCTTGGGA GGAGGGGAGG AGGGTCTCAG ACAGCTTTCG TGTCTATGTT GGCTTGGCTT 1320
 TGACTCTCCA AAGAGCAATA AATGCCACTT GGAGCTGTAT CTGGCCCCAA AGTTTAGGGA 1380
 TTGAAAACAT GCTTCTTTGA GGAGGAAACC CTTTAGGTT CAGAAGAATA TGGGGTGCCT 1440
 TGCTCCCTTG GACACAGCTG GCTTATCCTA TACAGTTGTC AATGCACACA GAATACACCC 1500
 TCATGCTCCC TGACGCAAGA CCCCTGAAAG TGATTCATGC TTCTGGCTGG CATTCTGCAT 1560
 65 GTTTAGTGAT TGTCTTGGGA ATGTTTCACT GCTACCCGCA TCCAGCGACT GCAGCACCG 1620
 AAAACGACTA ATGTAACATC GCAGAGTTGT TTGGACTTCT TCCTGTGCCA GGTCCAAGTC 1680
 GGGGACCTG AAGAATCAAT CTGTGTGAGT CTGTTTTTCA AAATGAAATA AAACACACTA 1740
 TTCTCTGGC

Seq ID NO: 458 Protein sequence
 Protein Accession #: NP_036393.1

1 11 21 31 41 51
 75 MDLQGRGVPS IDRLRLVLM L FHTMAQIMAE QEVENLSGLS TNPEKDIFVV RENGTTCLMA 60
 EPAAKFIVPY DWASNYVDL ITEQADIALT RGAEVKRGCG HSQSELQVFW VDRAYALKML 120
 FVKESHNSKH GPETATWRLSK VQFVYDSSEK THFKDAVSAG KHTANSHLS ALVTPACKSY 180
 EQAQQTISL ASSDPQKTVT MILSAVHIQF FDIISDFVFS BEHKCPVDER EQLEETLPLI 240
 LGLILGLVIM VTLAIYHVEH KMTANQVQIP RDRSQYKHMG

Seq ID NO: 459 DNA sequence
 Nucleic Acid Accession #: NM_001169.1
 Coding sequence: 85..870

1 11 21 31 41 51

5
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20
25

TAGGAGATAA	GAGTATCTTG	CACAGCAGGT	GCAGGTTTCC	CAGCAGCTCA	GGCAAGAGTC	60
CGATGTTTGT	GCCTATCTGAT	CCTGATGTCT	GGAGAGATAG	CCATGTGTGA	GCCTGAATTT	120
GGCAATGACA	AGGCCAGGGA	GCCGAGCGTG	GGTGGCAGGT	GGCGAGTGTG	CTGGTACGAA	180
CGGTTTGTGC	AGCCATGTCT	GGTCGAACTG	CTGGGCTCTG	CTCTCTTCAT	CTTCATCGGG	240
TGCGTGTGCG	TCAATGAGAA	TGGGACGGAC	ACTGGGCTGC	TGCAGCCGGC	CCTGGCCAC	300
GGGCTGGCTT	TGGGGCTCGT	GATTGCCACG	CTGGGGAATA	TCAGTGGTGG	ACACTTCAAC	360
CCTGCGGTGT	CCCTGGCAGC	CATGCTGATC	GGAGGCCCTCA	ACCTGGTGAT	GCTCCTCCCG	420
TACTGGGTCT	CACAGCTGCT	CGGGGGGATG	CTCGGGGCTG	CCTTGGCCAA	GGTGGTGAGT	480
CCTGAGGAGA	GGTTCTGGAA	TGCATCTGGG	CGGCGCTTTG	TGACAGTCCA	GGAGCAGGGG	540
CAGGTGGCAG	GGGCGTTGGT	GGCAGAGATC	ATCCTGACGA	CGCTGCTGGC	CCTGGCTGTA	600
TGCATGGGTG	CCATCAATGA	GAAGACAAAG	GGCCCTCTGG	CCCCGTTCTC	CATCGGCTTT	660
GGCGTCACCG	TGGATATCCT	GGCTGGGGGC	CCTGTGTCTG	GAGGCTGCAT	GAATCCCGCC	720
CGTGCTTTTG	GACCTGCGGT	GGTGGCCAAC	CACCTGGAAC	TCCACTGGAT	CTACTGGCTG	780
GGCCCACTCC	TGGCTGGCCT	GCTTGTGTGA	CTGCTCATTA	GGTGTCTCAT	TGGAGATGGG	840
AAGACCCGCC	TCATCTCTGA	GGCTCGGTGA	GCAGAGCTCG	TGGGATTCTC	GCTGCTCCAG	900
GTGTCTCTAG	CTCACTCTGC	CCAGACTGAG	GACAGGGGAG	TTCTCTGCAT	TCCTGCCAGG	960
GCAGAGGGCC	AGAGAGCGCA	CCCCCTGCTT	CCACTGCTTG	GGCTGCTTTT	CTCAGATAGA	1020
CTGACTGTCT	AGGAGGCTCT	AGGTTCTTGG	AATTCCTTTG	TGCTCATCAG	AGACCCGAGC	1080
CTGGGAACA	CGCTGCCCGC	ACTGCCGAGA	GAGCAGTGCA	AACACCACAA	CACGAGCGTG	1140
TTTCTTGAGA	GGAATGTCCC	CGAGTTGGAC	AAGGAGGCTG	TTTCTGCACA	TCAGCTCATT	1200
TCCCGCACCC	CATTCTCTGC	TTGATTGCTT	TGTTGGGGGC	CTGGCCACTT	CCTTGCTTCT	1260
CAAGCTGACA	ATTCTCACTT	TGCAATAAAT	AGTCCAGTGT	TTCTTTCAT		

Seq ID NO: 460 Protein sequence
Protein Accession #: NP_001160.1

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MSGBIAMCEP	EFGNDKAREP	SVGGRWRVSW	YERFVQPCLV	ELLGSALFIF	IGCLSVIENG	60
TDTLQLPAL	AHGLALGLVI	ATLGNISGGH	FNPVSLAAM	LIGGLNLVLM	LPYVWSQLLG	120
GMLGAALAKV	VSPEERFWNA	SGAAFVTVQE	QQVAGALVA	EIILTLLAL	AVCMGAINEK	180
TKGFLAPFSI	GFAVTVDLIA	GGPVSGGCMN	PARAFGPVAV	ANHWNFWIY	WLGPLLAGLL	240
VGLLIRCFIG	DKTRLILKA	R				

Seq ID NO: 461 DNA sequence
Nucleic Acid Accession #: NM_003226.1
Coding sequence: 2..226

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GATGCTGGGG	CTGGTCTGG	CCTTGCTGTC	CTCCAGCTCT	GCTGAGGAGT	ACGTGGGCGCT	60
GTCTGCAAAAC	CAGTGTCCCG	TGCCGGCCAA	GGACAGGGTG	GACTGCGGCT	ACCCCATGT	120
CACCCCCAAG	GAGTGCAACA	ACCGGGGCTG	CTGCTTTGAC	TCCAGGATCC	CTGAGTGCC	180
TTGGTGTTC	AAGCCCTGTA	CTAGGAAGAC	AGAAATGCACC	TTCTGAGGCA	CCTCCAGCTG	240
CCCTGCGGAT	GCAGGCTGAG	CACCCCTGCC	CGGCTGTGAT	TGCTGCCAGG	CACCTGTCAT	300
CTCAGTTTTT	CTGTCCCTTT	GCTCCCGGCA	AGCTTTCTGC	TGAAAGTTCA	TATCTGGAGC	360
CTGATGTCTT	AACGAATAAA	GGTCCCATGC	TCCACCCG			

Seq ID NO: 462 Protein sequence
Protein Accession #: NP_003217.1

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MLGLVLALLS	SSSABEYVGL	SANQCAVPK	DRVDCGYPHV	TPKECNRRGC	CFDSRIPGVP	60
WCFKPLTRKT	ECTF					

Seq ID NO: 463 DNA sequence
Nucleic Acid Accession #: NM_002993.1
Coding sequence: 64..408

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70
75
80

GGCAGCAGCC	AGTCTCCGGG	CCTCCACCCA	GCTCAGGAAC	CCGCGAACCC	TCTCTTGACC	60
ACTATGAGCC	TCCCGTCCAG	CCGCGCGGCC	CGTGTCCCGG	GTCTCTCGGG	CTCTCTGTGC	120
GGCTGTGCTG	CGCTGCTGCT	CCTGCTGACG	CCGCGGGGCG	CCCTCGCCAG	CGCTGGTCTCT	180
GTCTCTGCTG	TGCTGACAGA	GCTGCGTTGC	ACTTGTTTAC	GGGTTACGCT	GAGAGTAAAC	240
CCCAAAACGA	TTGGTAAACT	GCAGGTGTTC	CCGCGAGGCC	GGCAGTGCTC	CAAGGTGGAA	300
GTGGTAGCCT	CCCTGAAGAA	CGGGAAGCAA	GTTTGTCTGG	ACCCGGAAGC	CCCTTTTCTA	360
ARGAAGTCA	TCCAGAAAT	TTTGGACAGT	GGAAACAAGA	AAAACCTAGT	AACAAAAAAG	420
ACCATGCAAT	ATAAAATTGC	CCAGTCTTCA	CGCGAGCAGT	TTTCTGGAGA	TCCCTGGACC	480
CAGTAAGAA	AAGAAGGAAG	GGTTGGTTTT	TTTCCATTTT	CTACATGGAT	TCCCTACTTT	540
GAAGAGTGTG	GGGGAAGACC	TACGCTTCTC	CCTGAAGTTT	ACAGCTCAGC	TAATGAAGTA	600
CTAATATAGT	ATTTCCACTA	TTTACTGTTA	TTTACTCTGA	TAAGTTATTG	AACCCCTTGG	660
CAATTGACCA	TATTGTGAGC	AAGAATCTAC	TGGTTATTAG	TCTTTCAATG	AATATTGAAT	720
TGAAGATAAC	TATTGTATT	CTATCATACA	TTCTTAAAG	TCTTACCGAA	AAGGCTGTGG	780
ATTCTGTATG	GAAATAATGT	TTTATTAGTG	TGCTGTGTAG	GGAGGTATCC	TGTTGTTCTT	840
ACTCACTCTT	CTCATAAAT	AGGAAATATT	TTAGTTCTGT	TTTCTGGGG	AATATGTTAC	900
TCTTTACCTT	AGGATGCTAT	TAAAGTTGTA	CTGTATTAGA	ACACTGGGTG	TGTCATACCG	960
TTATCTGTGC	AGAAATATAT	TCCTTATTCA	GAATTTCTAA	AAATTTAAGT	TCTGTAAGGG	1020
CTAATATATT	CTCTTCTAT	GGTTTATGAT	GTTTGATGTC	TTCTTAGTAT	GGCATAATGT	1080
CATGATTTAC	TCATTAAACT	TTGATTTTGT	ATGCTATTTT	TTCACTATAG	GATGACTATA	1140

ATTCTGGTCA CTAATATAC ACTTTAGATA GATGAAGAAG CCAAAAAACA GATAAATTCC 1200
TGATTGCTAA TTTACATAGA AATGTATTCT CTGTGTTTTT TAAATAAAG CAAATTAAC 1260
AATGATCTGT GCTCTGCAAA GTTTTGAAAA TATATTTGAA CAATTTGAAT ATAAATTCAT 1320
CATTAGTCC TCAAAATATA TACAGCATTG CTAAGATTTT CAGATATCTA TTGTGGATCT 1380
TTTAAAGGTT TTGACCATTT TGTATGAGG AATTATACAT GTATCACATT CACTATATTA 1440
AAATTGCACT TTTATTTTCT CCTGTGTGTC ATGTTGGTTT TTGGTACTTG TATTGTCATT 1500
TGGAGAAACA ATAAAGATT TCTAAACCAA AAAAAAAAAA AAAAAA

Seq ID NO: 464 Protein sequence
Protein Accession #: NP_002984.1

1 11 21 31 41 51
MSLPSSRAAR VPGPSGSLCA LLALLLLLTLP PGPLASAGPV SAVLTELRCT CLRVTILRVNP 60
KTIGKLQVPP AGPQCSKVEV VASLKNKGQV CLDPBAPFLK KVIQKILDSG NKKN

Seq ID NO: 465 DNA sequence
Nucleic Acid Accession #: NM_002038.2
Coding sequence: 108..500

1 11 21 31 41 51
GAACCGTTTA CTCGCTGCTG TGCCCATCTA TCAGCAGGCT CCGGGCTGAA GATTGCTTCT 60
CTTCTCTCCT CCAAGGTCTA GTGACGGAGC CCGCGCGCGG CGCCACCATG CGGCAGAAGG 120
CGGTATCGCT TTTCTGTGTC TACCTGTCTG TCTTCACTTG CAGTGGGGTG GAGGCAGGTA 180
AGAAAAAGTG CTCGAGAGGC TCGGACAGCG GCTCCGGGTT CTGGAAGGCC CTGACCTTCA 240
TGGCCGTGCG AGGAGGACTC GCAGTCGCCG GCGTGGCCGC GCTGGGCTTC ACCGGCGCCG 300
GCATCGCGGC CAACTCGGTG GCTGCTCGCG TGATGAGCTG GTCTGCGATC CTGAATGGGG 360
CGCGCGTGGC CGCGGGGGGG CTAGTGGCCA CGCTGCAGAG CCTCGGGGCT GGTGGCAGCA 420
GCGTCTCAT AGTAATATT GGTGCCCTGA TGGGCTACGC CACCACAAG TATCTCGATA 480
GTGAGGAGGA TGAGGAGTAG CCAGCAGCTC CCAGAACCTC TTTCTCTTC TTGGCTTAAC 540
TCTTCAGTT AGGATCTAGA ACTTTCCTT TTTTTTTTTT TTTTTTTTTT TTTGAGATGG 600
GTTCTCACTA TATTGTCCAG GCTAGAGTGC AGTGGCTATT CACAGATGCG AACATAGTAC 660
ACTGAGCCT CCAACTCCTA GCCTCAAGTG ATCCTCCTGT CTCAACCTCC CAAGTAGGAT 720
TACAAGCATG CGCCGACGAT GCCCAGAATC CAGAACTTGT TCTATCACTC TCCCCAACAA 780
CCTAGATGTG AAAACAGAAT AAACCTCACC CAGAAAA

Seq ID NO: 466 Protein sequence
Protein Accession #: NP_002029.3

1 11 21 31 41 51
MRQKAVSLFL CYLLFTCSG VEAGKKKCE SSSGSGFWK ALTFMAVGGG LAVAGLPALG 60
FTGAGIAANS VASLMSWSA ILNGGVPAG GLVATLQSLG AGGSSSVIGN IGALMGYATH 120
KYLDEEDBE

Seq ID NO: 467 DNA sequence
Nucleic Acid Accession #: NM_003469.2
Coding sequence: 92..1945

1 11 21 31 41 51
GAAACGGCCC GAGAAGCTCG CCCGAGAAC GGGGAGGAAT ATGCTGTGGA GCTCCTCTGC 60
CATATAAACA AAAAGAGGAA ATCTTTCAAA CATGGCTGAA GCAAGACCC ACTGGCTTGG 120
AGCAGCCCTG TCTCTTATCC CTTTAATTTT CCTCATCTCT GGGGCTGAAG CAGCTTCATT 180
TCAGAGAAAC CAGCTGCTTC AGAAAGAACC AGACCTCAGG TTGGAATAATG TCCAAAAGTT 240
TCCAGTCTCT GAAATGATCA GGGCTTTGGA GTACATAGAA AACCTCCGAC AACAGCTCA 300
TAAGGAAGAA AGCAGCCGAG ATTATAATCC CTACCAAGGT GTCTCTGTCC CCCTTCAGCA 360
AAAAGAAAT GGCAGTGAAA GCCACTTGCC CGAGAGGGAT TCACTGAGTG AAGAAGACTG 420
GATGAGAATA ATACTCGAAG CTTTGAGACA GGCTGAAAT GAGCCTCAGT CTGCACCAAA 480
AGAAAATAAG CCTATGCCT TGAATTCAGA AAAGAACTTT CCAATGGACA TGAGTGATGA 540
TTATGAGACA CAGCAGTGGC CAGAAAGAAA GCTTAAGCAC ATGCAATTCC CTCCTATGTA 600
TGAAGAGAA TCCAGGGATA ACCCCTTTAA ACGCAAAAT GAAATAGTGG AGGAACAATA 660
TACTCTCAA AGCCTTGCTA CATTGGAATC TGTCTTCCAA GAGCTGGGGA AACTGACAGG 720
ACCAACAAC CAGAAACGTG AGAGGATGGA TGAGGAGCAA AAACCTTATA CGGATGATGA 780
AGATGATATC TACAAGGCTA ATAACATTGC CTATGAAGAT GTGGTCCGGG GAGAAGACTG 840
GAACCCAGTA GAGGAGAAAA TAGAGAGTCA AACCCAGGAA GAGGTGAGAG ACAGCAAAGA 900
GAATATAGGA AAAATGAAC AAATCAACGA TGAGATGAAA CGCTCAGGCG AGCTTGCCAT 960
CCAGGAAGAA GATCTTCGGA AAGAGAGTAA AGACCAACTC TCAGATGATG TCTCCAAAGT 1020
AATTGCCTAT TTGAAAAGGT TAGTAAATGC TGCAGGAAGT GGGAGGTTAC AGAATGGGCA 1080
AAATGGGGAA AGGGCCACCA GGCTTTTTGA GAAACCTCTT GATTCTCAGT CTATTATCA 1140
GCTGATTGAA ATCTCAAGGA ATTTACAGAT ACCCCAGAA GACTTAATTG AGATGCTCAA 1200
AACTGGGGAG AAGCCGAATG GATCAGTGGG ACCGGAGCGG GAGCTTGACC TTCTGTGTA 1260
CCTAGATGAC ATCTCAGAGG CTGACTTAGA CCATCCAGAC CTGTTCCTAA ATAGGATGCT 1320
CTCCAGAGT GGTACCCCTA AAACACCTGG TCGTGTGGG ACTGAGGCC TACCAGACGG 1380
GCTCAGTGT GAGGATATTT TAAATCTTT AGGGATGGAG AGTGACAGCA ATCAGAAAAC 1440
GTCGATTTT CCCAATCCAT ATAACCAGGA GAAAGTTCTG CCAAGGCTCC CTTATGTTGC 1500
TGGAGATCT AGATCGAACC AGCTTCCCAA AGCTGCCTGG ATTCCACATG TTGAAAAACAG 1560
ACAGATGGCA TATGAAAACC TGAACGACAA GAGATCAAGAA TTAGGTGAGT ACTTGGCCAG 1620
GATGCTAGTT AAATACCTGT AGATCATTA TCAAAACCA GTGAAGCGAG TTCTGGTCA 1680
AGGCTCATCT GAAGATGACC TGCAGGAAGA GGAACAAATT GAGCAGGCCA TCAAGAGCA 1740
TTTGAATCAA GGCAGCTCTC AGGAGACTGA CAAGCTGGCC CCGGTGAGCA AAAGGTTCCC 1800
TGTGGGGCCC CCGAAGATG ATGATACCCC AAATAGGCAG TACTGGGATG AAGATCTGTT 1860
AATGAAAGTG CTGGAATACC TCAATCAAGA AAAGGCAGAA AAGGGAAGGG AGCATATTGC 1920

5
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15
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TAAGAGAGCA ATGAAAAATA TGTAAGCTGC TTTCATTAAT TACCCCTACTT TCATTCCTCC 1980
CACCCCAAGC AAATCCCAAC ATTTCTCTTC AGTGTGTGTA CTTCTACTCT GTTAACACTG 2040
TAATATCTTT AAATGATGTA CAGGCAGATG AAACCAAGTC ACTGGGGAGT CTGCTTCATT 2100
TCCTCTGAGC TGTATCTCTG TGTATGGATA TGTGTAAATG TTATGACTCC TTGATAAAAA 2160
ATTTATTATG TCCATTATTC AAGAAAGATA TCTATGACTG TGTTTAATAG TATATCTAAT 2220
GGCTGTGGCA TTGTTGATGC TCACATATGA TAAAAAAGTG TCCTATAATT CTATTGAAAG 2280
TTTTTAATAT TTATTGAATT ATTTTGTATC TGTCTGTAGC GTTTTGTGGA GACTGGGACC 2340
AAAAAATAA AGCATTATAA ATATA

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Seq ID NO: 468 Protein sequence
Protein Accession #: NP_003460.1

1 11 21 31 41 51

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15 MAEAKTHWLG AALSLIPLIF LISGAEEASF QRNQLLQKEP DLRLENVQKF PSPEMIRALE 60
YIENLRQQAQ KEESPPYNNP YQGVSVPLQQ KENGDESHLP ERDSLSEEDW MRILEALRQ 120
AENEPOQAPK ENKPYALNSE KNFPMDSDD YETQQWPERK LKHMQFPMPY EENS RDNPFK 180
RTNEIVEEQY TPQSLATLES VFQELGKLTG PNNQKRERMD EEQKLYTDEE DDIYKANNIA 240
YEDVVGGEDW NPVEEKIESQ TQEEVRDSKE NIGKNEQIND EMKRSQQLGI QEEDLRKESK 300
DQLSDDVSKV IAYLKRLVNA AGSGRLQNGQ NGERATRLFE KPLDSQSIYQ LIEISRNLIQI 360
PPEDLIEMLK TGEKPNGSVE PERELDLFVD LDDISEADLD HPDLFQNRML SKSGYPKTPG 420
RAGTEALPDG LSVEDIILNLL GMESAANQKT SYFPNPNQOE KVLPRLPYGA GRSRSNQLPK 480
AAWIFPHVENR QMAYENLNDK DQELGEYLAR MLVKYPBIIN SNQVKRVPQG GSSEDDIQEE 540
EQIEQAIKEH LNQGSSEQETD KLAPVSKRFP VGPPKNDTTP NRQYWEDELL MKVLEYLNQE 600
KAEKGRHIA KRAMENM

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Seq ID NO: 469 DNA sequence
Nucleic Acid Accession #: NM_006398.1
Coding sequence: 19..516

30
35
40
45

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1 11 21 31 41 51
GGCCCCCTGT CTGCAGAGAT GGCTCCCAAT GCTTCCTGCC TCTGTGTGCA TGTCCGTTCC 60
GAGGAATGGG ATTTAATGAC CTTTGATGCC AACCCATATG ACAGCGTGAA AAAAAATCAA 120
GAACATGTCC GGTCTAAGAC CAAGGTTCTCT GTGCAGGACC AGGTTCTTTT GCTGGGCTCC 180
AAGATCTTAA AGCCACGGAG AAGCCTCTCA TCTTATGGCA TTGACAAAGA GAAGACCATC 240
CACCTTACCC TGAAGTGGT GAAGCCCACT GATGAGGAGC TGCCCTTGIT TCTGTGGAG 300
TCAGGTGATG AGGCAAGAG GCACCTCTCT CAGGTGCGAA GGTCCAGCTC AGTGGCACAA 360
GTGAAGCAAA TGATCGAGAC TAAGACGGGT ATAATCCCTG AGACCCAGAT TGTGACTTGC 420
AATGGAAGAA TGGTGAAGA TGGGAAGATG ATGGCAGATT ACGGCATCAG AAAGGGCAAC 480
TTACTCTTCC TGCCATCTTA TTGTATTGGA GGGTGACCAC CCTGGGGATG GGGTGTGGC 540
AGGGGTCAA AAGCTTATTT CTTTAACTCT CTTACTCAAC GAACACATCT TCTGATGATT 600
TCCCAAAATT AATGAGAATG AGATGAGTAG AGTAAGATT GGGTGGGATG GGTAGGATGA 660
AGTATATTGC CCAACTCTAT GTTCTTTTGA TTCTAACACA ATTAATTAAG TGACATGATT 720
TTTACTAATG TATTACTGAG ACTAGTAAT AAATTTTAA GGCAAAATAG AGCATT

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Seq ID NO: 470 Protein sequence
Protein Accession #: NP_006389.1

50
55

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1 11 21 31 41 51
MAPNASCLCV HVRSEWDLM TFDANPYDSV KKIKEHVRSK TKVPVQDQVL LLGSKILKPR 60
RSLSSYGDIK ERTIHLTLKV VKPSDEELPL FLVSGDBRAK RHLLQVRRSS SVAQVKAMIE 120
TKTGILPETQ IVTCNGKRLK DGRMMADYGI RKNLLFLAS YCIGG

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Seq ID NO: 471 DNA sequence
Nucleic Acid Accession #: XM_094741.1
Coding sequence: 1..948

60
65
70
75
80

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1 11 21 31 41 51
ATGAAGGCCA ACTACAGCGC AGAGGAGCGC TTTCTCTGTC TGGGTTTCTC CCACTGGCCT 60
TCCTCGCAGC CGGTCTCTCT GCGCCTTGTG CTCTCTGTCT ACCTCTGTAC CTTGACGGGC 120
AACTCGGCGC TGGTGTCTGT GCGGTGCGC GACCCGCGCC TGACACAGCC CATGTACTAC 180
TTCTCTGACC ACCTGCGCTT GGTAGACGCG GGCTTCACTA CTAGCGTGGT GCCCGCGCTG 240
CTGGCCAACC TGCGCGGACC AGCGCTCTGG CTGCGCGCA GCCACTGCAC GCGCCAGCTG 300
TGCGCATCGC TGGCTCTGGG TTGCGCGGAA TGCGTCTTCC TGCGGTGAT GGCTCTGGAC 360
CGCGCGGCGC CAGTGTGCGG CCCGCTGCGC TATGCGGGGC TCGTCTCCCC GCGCCTATGT 420
CGCACGCTGG CCAGCGCCTC CTGGCTAAGC GGCCCTACCA ACTCGGTTCG GCAAACCGCG 480
CTCTCTGCTG AGCGGCGCCT GTGCGCGCCC CGCCTGCTGG ACCACTTCAT CTGTGAGCTG 540
CCTGCGTTGC TCAAGCTTGC CTGCGGAGGC GAOGGAGACA CTACCGAGAA CCAGATGTTT 600
GCCGCCCGCG TGGTCATCCT GCTGCTGCGG TTGCGGTCA TCCTGCGCTC CTACGGTGCC 660
GTGGCCGCGG CTGTCTGTGT CATGCGGTTT AGCGGAGGCC GGAGGAGGGC GGTGGGCACG 720
TGTGGGTCCC ACTGACAGC CGTCTGCGTG TTCTACGGCT CGGCCATCTA CACTTACTCT 780
CAGCCGCGCG AGCGCTACAA CCAGGCAAGG GGCAAGTTCT TATCGCTCTT CTACACCGTG 840
GTCAACCTCT CTCTCAACCC GCTCATCTAC ACCCTCAGGA ATAAGAAAGT GAAGGGGCGA 900
GCGAGGAGGC TGCTGCGGAG TCTGGGAGGA GGCCAGGCTG GCGAGTGA

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Seq ID NO: 472 Protein sequence
Protein Accession #: XP_094741.1

1 -11 21 31 41 51

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MKANYSABER FLLLGPSDWP SLQPVLFALV LLCYLLTLTG NSALVLLAVR DPRLHTPMY 60

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FLCHLALVDA GFTTSVVPPL LANLRGPALW LPRSHCTAQL CASLALGSAB CVLLAVMALD 120
 RAAAVCRPLR YAGLVSPRLC RTLASASWLS GLTNSVAQTA LLAERPLCAP RLLDHFICEL 180
 PALLKLACGG DGGTTENQMF AARVVILLLE FAVILASYGA VARAVCCMRP SGGRRRAVGT 240
 CGSHLTAVCL FYGSAIYTYL QPAQRYNQAR GKFVSLFYTV VTPALNPLIY TLRNKKVKGA 300
 ARRLRLSLGR GQAGQ

Seq ID NO: 473 DNA sequence
 Nucleic Acid Accession #: NM_001062.1
 Coding sequence: 76..1380

1 11 21 31 41 51
 | | | | |
 GCTCTCATT CCTCTGCCC ATCACTTAAT AAATAGCCAG CCAATTCATC AACATTCTGG 60
 TACACTGTG GAGAGATGAG ACAGTCACAC CAGCTGCCCC TAGTGGGGCT CTTACTGTTT 120
 TCTTTTATTC CAAGCCAACAT ATGCGAGATT TGTGAGGTAA GTGAAGAAAA CTACATCCGC 180
 CTAATAACCTC TGTGTAATAC AATGATCCAG TCAAACTATA ACAGGGGAAC CAGCGCTGTC 240
 AATGTTGTGT TGTCCTCAA ACTTGTGTGA ATCCAGATCC AAACCTGAT GCAAAAGATG 300
 ATCCAACAAA TCAAAATACAA TGTGAAAAGC AGATTGTGAG ATGTAAGCTC GGGAGAGCTT 360
 GCCTTGATTA TACTGCTTT GGGAGTATGT CGTAACGCTG AGGAAAACCT AATATATGAT 420
 TACCACCTGA CTGACAAGCT AGAAAAATAA TTCCAAGCAG AAATTGAAAA TATGGAAGCA 480
 CACAATGGCA CTCCCCTGAC TAACACTAC CAGCTCAGCC TGGACGTTT GGCCTTGTGT 540
 CTGTTCAATG GGAACACTCT AACCCGCCAA GTTGTCAACC ACTTCACTCC TGAATAATAA 600
 AACTATTATT TTGATGSCCA GTTCTCAGTA GATACTGGTG CAATGGCTGT CCTGGCTCTG 660
 AACTGTGTGA AGAAGAGTCT AATAAATGGG CAGATCAAG CAGATGAAGG CAGTTTAAAG 720
 AACATCAGTA TTATACAAA GTCACTGGTA GAAAGATTC TGTCTGAGAA AAAAGAAAAT 780
 GGTCTCATTG GAAACACATT TAGCACAGGA GAAGCCATGC AGGCCCTCTT TGTATCATCA 840
 GACTATTATA ATGAAATGA CTGGAATTGC CAACAACTC TGAATACAGT GCTCAGCGAA 900
 ATTTCTCAAG GAGCATTCAG TAATCCAAAC GCTGCAGCCC AGGTCTTACC TGCCCTGATG 960
 GAAAGAGCCT TCTTGATAT TAACAAAGAC TCTTCTGGG TCTCTGCTTC AGGTAACCTC 1020
 AACATCTCCG CTGATGAGCC TATAACTGTG ACACCTCCTG ACTCACATC ATATATCTCC 1080
 GTCAATTACT CTGTGAGAAC CAATGAAACA TATTTACCA ATGTCACTGT GCTAAATGGT 1140
 TCTGTCTTCC TCAGTGTGAT GGAGAAAGCC CAGAAATGA ATGATACAT ATTGTTGTTT 1200
 ACAATGGAGG AGCCTCATG GGGGCCCTAT ATCACTGTA TTCAGGGCCT ATGTGCCAAC 1260
 AATAATGACA GAACCTACTG GGAACCTCTG AGTGGAGGCG AACCCTGAG CCAAGGAGCT 1320
 GGTAGTTACG TTGTCGCCAA TGGAGAAAAC TTGGAGGTTT GCTGGAGCAA ATACTAATAA 1380
 GCCCAAACTT TCCTCAGCTG CATAAAATCC ATTTGAGTGT GAGTTCATGT TTTATGTGTC 1440
 TTATGCCTTC TTCTTCAATT ATCCAGTAC GAGCAGGAGA GTTAATAACC TCCCCTTCTC 1500
 TCTCTACATG TTCAATAAAA GTTGTGAAA GATTAAC

Seq ID NO: 474 Protein sequence
 Protein Accession #: NP_001053.1

1 11 21 31 41 51
 | | | | |
 MRQSHQLPLV GLLLFSPFIP QLCEICEVSE ENYIRLKPFL NTMIQSNYNR GTSAVNVVLS 60
 LKLVGIIQIT LMQMIQIQL YNVKSRLSDV SSGELALIL ALGVCNRNAB NLIYDYHLTD 120
 KLENKQAEI ENMEAHNGTP LTNYQLSLD VLALCLFNGN YSTABVNVHF TPENKNYFYG 180
 SQFSVDTGAM AVIALTCVKK SLINGQIKAD EGSLEKNISY TKSLVEKILS EKKENGLIGN 240
 TFSIGEMQAG LRVSSDYNE NDWNCQQLN TVLTRISQGA FSNPNAAQV LPALMGKTFI 300
 DINKDSSCVS ASGNFNISAD EPITVTTPDS QSYISVNYSV RINETYFTNV TVLNGSVPLS 360
 VMEKAQKMD TIFGPTMEER SWGPIYTCIQ GLCANNNDRT YWELLSGGEP LSQAGSYVYV 420
 RNGENLEVRW SKY

Seq ID NO: 475 DNA sequence
 Nucleic Acid Accession #: NM_004852.1
 Coding sequence: 89..1546

1 11 21 31 41 51
 | | | | |
 GCCCGCGCCC GCCCGGGGCC CTGATGGACT GAATGAAGGC TGCCCTACAC GCCTATCGAT 60
 GCCTCACCAA AGACCTAGAA CGTGCGCCAT GAACCGGAG CTGACAATGG AAAGTCTGGG 120
 CACTTTGAC GCGCGCGCG GCGCGGCGAG TGGCGGGGCG GCGCGCGGGG CGCGCGGGGG 180
 CGCGCGGGGG GCGCGGGGCC ATGAGCAGGA GCTGCTGGCC AGCCCCAGCC CCCACCAOCC 240
 GCGCGCGGCG CCGCGTGGCT CGCTGCGGGG CCTCGCGCG CCTCCAACCG CGCACCAGGA 300
 GCTGGGACG GCGGCGCGGG CGGCAGCGGC GGCCTGCGCG TCGGCCATGG TCACCAGCAT 360
 GGCTCGATC CTGGACGGCG GCGACTACCG GCCCGAGCTC TCCATCCCGC TGCAACACGC 420
 CATGAGCATG TCCTCGCATG CGTCTCCGCC TGGCATGGGC ATGAGCAACA CCTACACCAC 480
 GCTGACACCG CTCACGCGC TGCCACCCAT CTCACCGTG TCTGACAAGT TCCACCACCC 540
 TCACCGGCAC CACCATCCGC ACCACCAACA CCACCCACAC CACCAGCGCC TGTCCGGCAA 600
 CGTCAGCGGC AGCTTCACCC TCATGCGCGA CGAGCGCGGG CTCCCGGCCA TGAACAACCT 660
 CTACAGTCCC TACAAGGAGA TGCCCGGCAT GAGCCAGAGC CTGTCCCGCG TGGCGGCCAC 720
 GCGCTGGGCG AACGGGCTAG GCGGCCCTCA CAACGCGCAG CAGAGTCTGC CCAACTACGG 780
 TCGCGCGGGC CAGCAAAAA TGCTCAGCCC CAACTTGCAC GCGCACCACA CTGCTATGCT 840
 GACCGCGGGT GAGCAACACC TGTCCCGCGG CCTGGGCACC CCACCTGCGG CCATGATGTC 900
 GCACCTGAAC GGCCTGCACC ACCCGGGCCA CACTCAGTCT CACGGGCGCG TGCTGGCACC 960
 CATGCGCAG GCGCCACCCCT CGTCTCATC GGGCTCGCAG GTGGCCACGT CGGGCCAGCT 1020
 GGAAGAAATC AACACCAAAG AGTGGGCCCA GCGCATCACA GCGGAGCTGA AGCGCTACAG 1080
 TATCCCCGAG GCGATCTTTG CGCAGAGGGT GCTGTGCGCG TCTCAGGGGA CTCTCTCGGA 1140
 CCTGCTCCGG AATCCAAAAC CGTGGAGTAA ACTCAATCT GGCAGGGAGA CCTTCCGCAG 1200
 GATGTGGAAG TGCTTCAGG AGCCCGAGTT CCAGCGCATG TCCGCTTAC GCCTGGCAGC 1260
 GTGCAACCGC TAAGAGCAG AACCACAAAC AGACAGGAAC AATTCACAGA AGAAGTCCCG 1320
 CCTGTGTTTC ACTGACCTCC AACGCCGAAC ACTCTTCGCC ATCTTCAAGG AGAACAAACG 1380
 CCGCTCAAGG GAGATGACGA TCACCAATTC CCAGCAGCTG GGCCTGGAGC TCACAACCGT 1440
 CAGCAACTTC TTATGAACG CCCGGCGCG CAGCCTGGAG AAGTGGCAAG ACGATCTGAG 1500

CACAGGGGGC TCCTCGTCCA CCTCCAGCAC GTGTACCAAA GCATGATGGA AGGACTCTCA 1560
 CTTGGGCACA AGTCACCTCC AAATGAGGAC AACAGATACC AAAAGAAAAA AAAGGAAAAA 1620
 GACACCGGAT TCCTAGCTGG GCCCTTCAC TGGTG

5 Seq ID NO: 476 Protein sequence
 Protein Accession #: NP_004843.1

1 11 21 31 41 51
 10 MNPELTMSL GTLHGARGGG SGGGGGGGGG GGGGGPGHEQ ELLASPSPHH ARRGPRGSLR 60
 GPPPPPTAHQ ELGTAAAAAA AASRSAMVTS MASILDGGDY RPELSIPLHH AMSMSCDSSP 120
 PGMGMSNTYT TLTPLQPLPP ISTVSDKFHH PHPHHHPHH HHHHHQRLSG NVSGSFTLMR 180
 DERGLPAMNN LYSYKEMPQ MSQSLSPAA TPLGNLGLL HNAQQSLPNY GPPGHDKMLS 240
 15 PNFDAAHTAM LTRGEQHLR GLGTPPAAMM SHLNLHHPG HTQSHGPVLA PSRERPPSSS 300
 SSGSVATSGQ LEEINTKEVA QRITAELEKRY SIPQAIFAQR VLCSRSGTLS DLLRNPKPWS 360
 RLKSGRETFR MMKWLQEPN FORMSALRLA ACKRKEQEPN KDRNNSQKKS RLVFTDLQRR 420
 TLFAIFKENK RPSKEMQITI SQQLGLELTT VSNFFMNARR RSLKRWQDDL STGGSSTSS 480
 TCTKA

20 Seq ID NO: 477 DNA sequence
 Nucleic Acid Accession #: NM_013271.1
 Coding sequence: 27..809

1 11 21 31 41 51
 25 TCCGGAGCCA GGCTCGCTGG GGCAGCATGG CGGGGTGGCC GCTGCTCTGG GGGCCGCGGG 60
 CCGGGGGCGT CGGCCTTTTG GTGCTGCTGC TGCTCGGCCT GTTTCGGCCG CCCCCCGCGC 120
 TCTGCGCGCG GCCCGTAAAG GAACCCCGCG GCCTAAGCGC AGCGTCTCCG CCCTTGGCTG 180
 30 AGACTGGCGC TCCTCGCCGC TTCCGGCGGT CAGTGCCTCG AGGTGAGCGC GCGGGGCGCG 240
 TGCAGGAGCT GCGCGCGGCG CTGGCGCATC TGCTGGAGGC CGAACCTCAG GAGCGGCGCG 300
 GGGCCGAGCG GCAGGAGGCT GAGGATCAGC AGCGCGCGGT CCTGGCGCAG CTGCTGCGCG 360
 TCTGGGCGCG CCCCCGCAAC TCTGATCCGG CTCTGGGCCT GGACGACGAC CCGAGCGCGC 420
 CTGACGCGCA GCTCGCTCGC GCTCTGCTCC GCGCCGCGCT TGACCTGCC GCCTAGCAG 480
 35 CCCAGCTTGT CCCCCGCCCC GTCCCCGCGC CGGCGCTCCG ACCCGGCGCC CCGTCTACG 540
 ACGACGCGCC CCGCGGCGCG GATGCTGAGG AGGCAGGCGA CGAGACACCC GACGTGGACC 600
 CGAGCTGTT GAGGTACTTG CTGGGACGGA TTCTTGCGGG AAGCGCGGAC TCCGAGGGGG 660
 TGGCAGCCCC GCGCGGCTC CGCGGTGCGC CGACACGGA TGTGGGCTCT GAGCTGCCCC 720
 CTGAGGCGGT GCTGGGGGCG CTGCTGCGTG TGAAACGCT AGAGACCCCG GCGCCCCAGG 780
 40 TGCTGCAAG CGGCTCTTG CCACCTGAG CACTGCCCCG ATCCCGTGCA CCTTGGGACC 840
 CAGAAAGTGC CCGCCATCC CGCCACGAG ACTTCTCCCC GCCAGCAGT CCAGAGCAAC 900
 TTACCCCGCG CAGCCAGCCC TCTACCCGA GGATCCCTAC CCGCTGGCCC ACAATAACAT 960
 GATCTGAGC

45 Seq ID NO: 478 Protein sequence
 Protein Accession #: NP_037403.1

1 11 21 31 41 51
 50 MAGSPLLWGP RAGGVGLLVLL LLLGLFRPPP ALCARFVKEP RGLSAASPLL ARTGAPRRFR 60
 RSVPRGEAAG AVQELARALA HLEAERQER ARAEAQEAED QQARVLAQLL RVWGAAPRNSD 120
 PALGLDDDFD APAAQLARAL LRARLDPAAL AAQLVPAPVP AAALRFRFPV YDDGPAGPDA 180
 EBAGDETDFV DPELLRYLLG RILAGSADSE GVAAPRRLRR AADHDVGSBL PPGVGLGALL 240
 RVKRLFPAP QVPARRLLPP

55 Seq ID NO: 479 DNA sequence
 Nucleic Acid Accession #: NM_002214
 Coding sequence: 681..2990

1 11 21 31 41 51
 60 CCCAGAGCGG CTTCCTCCCTG TTGCTGGCAT CCGAGCTTC CTCCCTTGCC AGCCAGGAAG 60
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CSGRGTCVCG RCECTDPRSI GRFCEHCPTC YTACKENWNC MQCLHPHNLS QAILDQCKTS 660
CALMBQHYHV DQTSSECFSSP SYLRIFPIIF IVTFILIGLLK VLIIRQVILQ WNSNKIKSSS 720
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Seq ID NO: 481 DNA sequence
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Coding sequence: 1..2574

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Seq ID NO: 482 Protein sequence
Protein Accession #: NP_003309.1

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KLIDFGIANG MQPDTTSVVK DSQVGTVMYV PPEAIKDMSS SRENGSKSK ISPKSDVWSL 720
GCILYMYTNG KTFPFQIINQ ISKLHAIIDP NHEIEFPDIP EKDLQDVLKC CLKRDPKQRI 780
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 Protein Accession #: NP_003658.1

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Protein Accession #: NP_005747.1

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Coding sequence: 1..2904

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	GTGGGATATT	TCTGTGTGAT	ATTTTGTGCT	AACGTGAGCA	TGTTTATTGT	GGTCTCGGTT	2280
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Seq ID NO: 488 Protein sequence
 Protein Accession #: Eos sequence

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	NVPSPIGIBQ	PLSPQPSAPI	ASSPAIDMPP	QSETISSPMP	QTHVSGTPPP	VKASFSSPTV	300
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	RRYLCCGKLR	LAENSDWSKT	ATNGLKKQTV	NQGVSSSSNS	LQSSSNSTNS	TTLLVNMDCS	900
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	ATCCTCATCC	AGCTGTGTGC	TGCTCTGCTT	CTGCTGAACC	TGGTCTTCCT	CCTGGACTCG	2040
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	TTTCTCTTGG	TCTCATTAC	ATGGATGGGC	CTAGAAGCAT	TCCATATGTA	CCTGGCCCTT	2160
	GTCAAAGTAT	TTAATACTTA	CATCCGAAAA	TACATCCTTA	AATTCTGCAT	TGTCGGTTGG	2220
	GGGGTACCAG	CTGTGGTTGT	GACCATCATC	CTGACTATAT	CCCCAGATAA	CTATGGGCTT	2280
	GGATCCTATG	GGAAATTCCC	CAATGGTTCA	CCGGATGACT	TCTGCTGGAT	CAACAACAAT	2340
10	GCAGTATTCT	ACATTACCGT	GTTGGGATAT	TTCTGTGTGA	TATTTTGTCT	GAACGTGAGC	2400
	ATGTTTCATTG	TGGTCTCGGT	TCAGCTCTGT	CGAATTAATA	AGAAGAAGCA	ACTGGGAGCC	2460
	CAGCGAAAAA	CCAGTATTCA	AGACCTCAGG	AGTATCGCTG	GCCITACATT	TTTACTGGGA	2520
	ATAAAGTGGG	GCTTTGCCCT	CTTTGCTCTG	GGACCAAGTA	ACGTGACCTT	CATGTATCTG	2580
	TTTGCCATCT	TTAATACCTT	ACAAGGATTT	TTTATATTCA	TCTTTTACTG	TGTGGCCAAA	2640
	GAAAAATGTA	GGAAGCAATG	GAGGCGGTAT	CTTTGTTGTG	GAAAGTTACG	GCTGGCTGAA	2700
15	AATTCGACT	GGAGTAAAC	TGCTACTAAT	GGTTTAAAGA	AGCAGACTGT	AAACCAAGGA	2760
	GTGTCCAGCT	CTTCAAAATC	CTTACAGTCA	AGCAGTAAC	CCACTAATC	CACCACACTG	2820
	CTAGTGAATA	ATGATTGCTC	AGTACACGCA	AGCGGGAATG	GAAATGCTTC	TACAGAGAGG	2880
	AATGGGGTCT	CTTTTATGTT	TCAGAATGGA	GATGTGTGCC	TTACAGATTT	CACTGGAAAA	2940
20	CAGCACATGT	TTAACGAGAA	GGAAGATCC	TGCAATGGGA	AAGGCCGTAT	GGCTCTCAGA	3000
	AGGACTTCAA	AGCGGGGAAG	CTTACACTTT	ATTGAGCAAA	TGTGA		

Seq ID NO: 492 Protein sequence

Protein Accession #: Eos sequence

25	1	11	21	31	41	51	
	MVFSVRQCGH	VGRTEEVLLT	FKIFLVIICL	HVVLVTSLEE	DTDNSSLSP	PAKLSVVSFA	60
	PSSENEVETS	LNDVTLSSL	SNETEKTKIT	IVKTFNAGSV	KPQRNICNLS	SICNDSAFFR	120
30	GEIMFYDKE	STVPQNHIT	NGTLTGVLSL	SELKRSLNKL	TLQTLSETYF	IMCATAEAQS	180
	TLNCTFTIKL	NNTMNACAAI	AALERVKIRP	MEHCCCVSRI	PCPSSPEBLG	KLQCDLQDPI	240
	VCLADHPRGP	PFSSSSQIPV	VPRATVLSQV	PKATSFAEPP	DYSPVTHNPV	SPIGEIQPLS	300
	PQPSAPIASS	PAIDMPPOSE	TISSPMPQTH	VSGTTPPVKA	SFSSPTVSAP	ANVNTTSAPP	360
	VQTDIVNTSS	ISDENQVLQ	MEKALSLSGL	EPNLAGEMIN	QVSRLLHSPP	DMLAPLAQRL	420
35	LKVVDIGLQ	LNFSTNTISL	TSPSLALAVI	RVNASSFNNT	TFVAQDPANL	QVSLETOAPE	480
	NSIGTITLPS	SLMNNLPAHD	MELASRVQFN	FFETPALPQD	PSLENLSLIS	YVISSSVANL	540
	TVRNLRNVT	VTLEHINPSQ	DELTIVRCVPW	DLGRNGGRGG	WSDNGCSVKD	RRLNETICTC	600
	SHLTSFGVLL	DLSTSVLPA	QMMALTFTY	IGCGLSSIFL	SVTLVITYIAF	EKIRRDYPSK	660
	ILIQLCALAL	LLNVFLLDS	WIALYKMGSL	CISVAVFLHY	FLLVSFTWMG	LEAFHMYLAL	720
40	VKVFTYIRK	YILKFCIVGW	GVPVAVVTII	LTISPENYGL	GSYKFPNGS	PDDFCMINNN	780
	AVFYITVVG	FCVIFLLNVS	MFIVVLVQLC	RIKKKKQLGA	QRKTSIQDLR	SIAGLTFLLG	840
	ITWGFAPFAW	GFVNVTFMYL	FAIFNTLQGF	FIFIFYCVAK	ENVRKQWRRY	LCCGLRLAE	900
	NSDHSKTATN	GLKKQTVNQG	VSSSSNSLQS	SSNSTNSTTL	LVNDCSVHA	SGNGMASTER	960
	NGVSFSVQNG	DVCLHDFTGK	QHMFNEKEDS	CNGKGRMALR	RTSKRGSLEP	IEQM	

Seq ID NO: 493 DNA sequence

Nucleic Acid Accession #: NM_015507

Coding sequence: 241..1902

50	1	11	21	31	41	51	
	CGCAGAGGGA	GGCTCGGCCA	GGCTAGCCAG	GGCGCCCCCA	GCCCTCCCCC	AGGCCGCGAG	60
	CGCCCTGCCC	GGGGTGCCTG	GCCTCCCCCT	CCAGACTGCA	GGGACAGCAC	CCGGTAACTG	120
	CGAGTGTAGC	GGAGGACCCG	AGCGGCTGAG	GAGAGAGGAG	GCGCGGCTT	AGCTGCTACG	180
55	GGGTCCGGCC	GGCGCCCTCC	CGAGGGGGGC	TCAGGAGGAG	GAAGSAGGAC	CCGTGCGAGA	240
	ATGCCTCTGC	CCTGGAGCCT	TGCGCTCCCG	CTGCTGCTCT	CCTGGGTGGC	AGGTGGTTTC	300
	GGGAAGCGCG	CCAGTGCAGG	GCAATCACGG	TTGTTAGCAT	CGGCACGTGA	CCCTGGGGTC	360
	TGTCACTATG	GAACTAAACT	GGCCTGCTGC	TACGGCTGGA	GAAGAAACAG	CAAGGGAGTC	420
	TGTGAAGCTA	CATGCGAACC	TGGATGTAAG	TTTGGTGAAG	GCGTGGGACC	AAACAATGTC	480
60	AGATGCTTTC	CAGGATACAC	CGGGAAAACC	TGCACTCAAG	ATGTGAATGA	GTGTGGAATG	540
	AAACCCCGGC	CATGCCAACA	CAGATGTGTG	AATACACACG	GAAGCTACAA	GTGCTTTTGC	600
	CTCAGTGGCC	ACATGCTCAT	GCCAGATGCT	ACGTGTGTGA	ACTCTAGGAC	ATGTGCCATG	660
	ATAAAGTCTC	AGTACAGCTG	TGAAGACACA	GAAGAAGGGC	CACAGTGCCT	GTGTCCATCC	720
	TCAGGACVLC	GCCTGGCCCC	AAATGGAAGA	GACTGTCTAG	ATATTGATGA	ATGTGCCTCT	780
65	GGTAAAGTCA	TCTGTCCCTA	CAATCGAAGA	TGTGTGAACA	CATTGTGAAG	CTACTACTGC	840
	AAATGTCACT	TTGGTTTCGA	ACTGCAATAT	ATCAGTGGAC	GATATGACTG	TATAGATATA	900
	AATGAATCTG	CTATGCGATG	CCATACGTGC	AGCCACCATG	CCAAATGCTT	CAATACCCAA	960
	GGGTCTCTCA	AGTGTAAATG	CAAGCAGGGA	TATAAAGGCA	ATGGACTTCG	GTGTTCTGCT	1020
	ATCCCTGAAA	ATTCTGTGAA	GGAAGTCCTC	AGAGCACCTG	GTACCATCAA	AGACAGAATC	1080
70	AAGAAGTTGC	TTGCTCACAA	AAACAGCATG	AAAAAGAAGG	CAAAAATTAA	AAATGTTACC	1140
	CCAGAACCCA	CCAGGACTCC	TACCCCTAAG	GTGAACCTGC	AGCCCTTCAA	CTATGAAGAG	1200
	ATAGTTTCCA	GAGGCGGGAA	CTCTCATGGA	GGTAAAAAAG	GGAATGAAGA	GAAAATGAAA	1260
	GAGGGGCTTG	AGGATGAGAA	AAGAGAAGAG	AAAGCCCTGA	AGAATGACAT	AGAGGAGCGA	1320
	AGCCTGCGAG	GAGATGTGTT	TTTCCCTAAG	GTGAATGAAG	CAGGTGAATT	CGCCTGATT	1380
75	CTGGTCCAAA	GGAAGCGCT	AACCTTCCAA	CTGGAACATA	AAGATTTAAA	TATCTCGGTT	1440
	GACTGCGAGT	TCAATCATGG	GATCTGTGAC	TGGAACACAG	ATAGAGAAGA	TGATTTTGAC	1500
	TGGAATCCTG	CTGATCGAGA	TAATGCTATT	GGCTTCTATA	TGGCAGTTCC	GGCCTTGSCA	1560
	GGTCACAGA	AAGACATTGG	CCGATTGAAA	CTTCTCTTAC	CTGACCTGCA	ACCCCAAAGC	1620
	AACCTCTGTT	TGCTCTTTGA	TTACCGGCTG	GCCGGAGACA	AAGTCGGGAA	ACTTCGAGTG	1680
80	TTTGTGAAAA	ACAGTAACAA	TGCCCTGGCA	TGGGAGAAGA	CCACGAGTGA	GGATGAAAAG	1740
	TGGAAGACAG	GGAAAATTCA	GTTGTATCAA	GGAAGCTGATG	CTACCAAAAG	CATCATTTTT	1800
	GAAGCAGAAC	TGGGCAAGGG	CAAAAACCGC	GAAATGCGAG	TGGATGGCGT	CTTGCTTGTT	1860
	TCAGGCTTAT	GTCCAGATAG	CCTTTTATCT	GTGGATGACT	GAATGTTACT	ATCTTTATAT	1920
	TGTACTTTGT	TTGTGAGTTC	CCTGGTTTTT	TGATATTGTC	ATCATAGGAC	CTCTGGCATT	1980
	TTAGAATTAC	TAGCTGAAAA	ATTGTAATGT	ACCAACAGAA	ATATTATTGT	AAGATGCCCT	2040

5 TCTTGTATAA GATATGCCAA TATTTGCTTT AAATATCATA TCACGTGATC TTCTCAGTCA 2100
 TTCTGAATC TTTCACATT ATATTATAAA ATATGGAAAT GTCAGTTTAT CTCCCCCTCT 2160
 CAGTATATCT GATTTGTATA AGTAAGTTGA TGAGCTTCTC TCTACAACAT TTCTAGAAAA 2220
 TAGAAAAAAA AGCAGAGAGA AATGTTTAACT TGTGACTC TTATGATACT TCTTGGAAAC 2280
 TATGACATCA AAGATAGACT TTTGCCTAAG TGGCTTAGCT GGGTCTTTCA TAGCCAAACT 2340
 TGTATATTA AATTCTTTGT AATAATAATA TCCAATCAT CAAAAAAA AAAAAAAA

10 Seq ID NO: 494 Protein sequence
 Protein Accession #: NP_056322

1 11 21 31 41 51
 15 MPLPWSLALP LLSWVAGGF GNAASARHHG LLASARQPGV CHYGTKLACC YGWRNRSKGV 60
 CEATCEPGCK FGECVGPNNK RCFPGYTGKT CSQDVNECGM KPRPCQHRVC NTHGSYKFCF 120
 LSGHMLMPDA TCNNSRTCAM INCQYSCEDT EEGPQCLCPG SGLRLAPNGR DCLDIDECAS 180
 GKVICPNRR CVNTFGSYIC KCHIGFELQY ISGRYDCIDI NECTMDSHTC SHHANCFTNQ 240
 GSPKCKCKQG YKNGNLRCSA IPENSVKEVL RAPGTIKDRI KKLALHNSM KKKAKIKNVT 300
 20 PEPTRTPTPK VNLQPFNYEE IVSRGGNSHG GKKGNEEKMK EGLEDEKREE KALQNDIEER 360
 SLRGDVFPPK VNEAGFGLI LVQRKALTSK LEHKDLNISV DCSFNHIGCD WKQDREDDFD 420
 WNPADRDNAI GFYMAVPALA GHKKDIGRLK LLLFDLPQPS NFCLLPDYRL AGDKVGLKRV 480
 FVKNSNNALA WEKTTSEDEK WKTGKIQLVQ GTDATKSIIF BAERGKGTG EIAVDGVLLV 540
 SGLCPDSSL S VDD

25 Seq ID NO: 495 DNA sequence
 Nucleic Acid Accession #: NM_003506.1
 Coding sequence: 259..2379

30 1 11 21 31 41 51
 GCAGCTCCAG TCCCGGACGC AACCCCGGAG CCGTCTCAGG TCCCTGGGGG GAACGGTGGG 60
 TTAGACGGGG ACGGAAGGGG ACAGCGGCCCT TCGACCGCCC CCGGAGTAAT TGACCCAGGA 120
 CTCATTTTCA GGAAGCCTG AAAATGAGTA AAATAGTGAA ATGAGGAATT TGAACATTTT 180
 35 ATCTTTGGAT GGGGATCTTC TGAGGATGCA AAGAGTGATT CATCCAAGCC ATGTGGTAAA 240
 ATCAGGAATT TGAAGAAAT GGAGATGTTT ACATTTTGTG TGAGGTGATAT TTTTCTACCC 300
 CTCTAAGAG GGCACAGTCT CTTCACTGTG GAACCAATTA CTGTCCCGAG ATGTATGAAA 360
 ATGGCTTACA ACATGACGTT TTTCCCTAAT CTGATGGGTC ATTATGACCA GAGTATTGCC 420
 GCGGTGGAAA TGGAGCATTT TCTTCTCTC GCAATCTGG AATGTTCAAC AAACATTGAA 480
 40 ACTTTCCTCT GCAAAGCATT TGTACCAACC TGCATAGAAC AAATTCATGT GGTTCACCT 540
 TGTGTAAC TTTGTAGAAA AGTATATCTT GATTGCAAAA AATTAATGTA CACTTTTGGG 600
 ATCCGATGCG CTGAGGAGCT TGAATGTGAC AGATTACAAT ACTGTGATGA GACTGTCTCT 660
 GTAACCTTTG ATCCACACAC AGAATTTCTT GGTCTCAGA AGAAAAAGCA ACAAGTCCAA 720
 AGAGACATTG GATTTTGGTG TCCAAGGCAT CTTAAGACTT CTGGGGGACA AGGATATAAG 780
 45 TTTCTGGGAA TGGACAGTG TCGCCTCCA TGCCCAACA TGTATTTTAA AAGTGATGAG 840
 CTAGAGTTTG CAAAAGTTT TATTGGAACA GTTCAATAT TTTGTCTTGG TGCAACTCTG 900
 TTCAATCTCC TACTTTTTT AATTGATGTT AGAAGATTCA GATACCCAGA GAGACCAATT 960
 ATATATTACT CTGCTGTGTA CAGCATTGTA TCTCTTATGT ACTTCATTGG ATTTTGTCTG 1020
 GCGGATAGCA CAGCCTGCAA TAAGGCAGAT GAGAAGCTAG AACTTGGTGA CACTGTTGTC 1080
 50 CTAGGCTCTC AAAATAAGGC TTGACCGTTT TTGTTTCATG TTTTGTATTT TTTTCAATG 1140
 GCTGGCCTAG TGTGGTGGGT GATTCTTACC ATTACTTGGT TCTTAGCTGC AGGAAGAAAA 1200
 TGGAGTTGTG AAGCCATCGA GCAAAAAGCA GTGTGGTTTC ATGCTGTGTC ATGGGGAACA 1260
 CCAGGTTTCC TGACTGTAT GCTTCTTGCT CTGAACAAAG TTGAAGGAGA CAACATTAGT 1320
 GGAGTTTGCT TTGTTGGCCT TTATGACCTG GATGCTTCTC GCTACTTTGT ACTCTTGCCA 1380
 55 CTGTGCTTTT GTGTGTTTGT TGGGCTCTCT CTCTTTTAG CTGGCATTAT TTCTTTAAAT 1440
 CATGTTGAC AAGTCATACA ACATGATGCG CGGAACCAAG AAAAAGTAAA GAAATTTATG 1500
 ATTGCAATTG GAGTCTTCAG CGGCTTGAT CTGTGCGCAT TAGTGACACT TCTGGATG 1560
 TACGCTATG AGCAAGTGAA CAGGATTACC TGGGAGATAA CTGGGTCTCT TGATCATTTG 1620
 CGTCAGTACC ATATCCCATG TCCTTATCAG GCAAAAGCAA AAGCTCGACC AGAATTGGCT 1680
 60 TTATTTATGA TAAATACCT GATGACATTA ATTGTTGGCA TCTCTGCTGT CTCTGGGT 1740
 GGAAGCAAAA AGACATGCAC AGAATGGGCT GGGTTTTTAA AAGGAAATCG CAAGAGAGAT 1800
 CCAATCAGTG AAAGTCGAAG AGTACTACAG GAATCATGTG AGTTTTCTT AAAGCACAT 1860
 TCTAAAGTTA AACACAAAAA GAAGCACTAT AAACCAAGTT CACACAAGCT GAAGGTCAAT 1920
 TCCAATCCA TGGGAACGAC CACAGGAGCT ACAGCAAAATC ATGGCACTTC TGCACTAGCA 1980
 65 ATTACTAGCC ATGATTACCT AGGACAAGAA ACTTTGACAG AAATCCAAC CTCACCAAGAA 2040
 ACATCAATGA GAGAGGTGAA AGCGGACGGA GCTAGCACCC CCAGGTTAAG AGAACAGGAC 2100
 TGTGTTGAAC CTGCTCGCC AGCAGCATCC ATCTCCAGAC TCTCTGGGGA ACAGGTGAC 2160
 GGGGAAGGCC AGGACGGCAG TGTATCTGAA AGTGGCGGGA GTGAAGGAAG GATTAGTCCA 2220
 AAGAGTGATA TTAAGTACAC TGGCCTGGCA CAGAGCAACA ATTTGCAAGT CCCAGTTCT 2280
 70 TCAGAACCAA GCAGCCTCAA AGGTTCCACA TCTCTGCTTG TTCACCCAGT TTCAGGAGTG 2340
 AGAAAGAGC AGGGAGGTGG TTGTCATTCA GATACCTGAA GAACATTTTC TCTGTTACT 2400
 CAGAAGCAAA TTTGTGTTAC ACTGGAAGTG ACCTATGCAC TGTTTGTGAA GAATCACTGT 2460
 TAGGTTCTTC TTTTGCACCT AAAGTTGACT TGCTACTGTT TATACTGGA AAAATAGAGT 2520
 TCAAGATAA TATGACTCAT TTCACACAAA GGTAAATGAC AACAAATATC CTGAAGACAG 2580
 75 AAATGTGAG GTTAATAATA TTTTAAAT AGTGTGGGAG GACAGAGTTA GAGGAATCTT 2640
 CCTTTCTAT TTAATGAAGT TCTACTCTG GTAAGAGTAT TTAAGATGT ACTATGCTAT 2700
 TTTACCTTTT TGATATAAAA TCAAGATAAT TCTTTGCTGA AGTATTAAAT TCTTATCTT 2760
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 80 ATTCAAGTAT TTTTATCAT CTATTGTGAT ATTTTAGCAC TTTGGTAGCT TTTACACTGA 2880
 ATTTCTAAGA AAATGTGAAA ATAGTCTTCT TTTTACTGTT AAAAAAGAT ATACCAAAAA 2940
 GTCTTATAAT AGGAATTTAA CTTTAAAAAC CCACCTATTG ATACCTTACC ATCTAAAATG 3000
 TGTGATTTT TATGTTCTGT TTTAGGAATT TCACAGATCT AAATTATGTA ACTGAAATAA 3060
 GGTGCTTACT CAAAGAGTGT CCACCTATTG TGTATATTG CTGCTCACTG ATCCTTCTGC 3120
 ATATTTAAAA TAAATGTGCC TAAAGGGTTA GTAGACAAAA TGTAGTCTT TTGTATATTA 3180
 GGCAAGTGAC AATTGACTTC CCTTTTTTAA TGTTCATGTA CCACCATTTG ATTTGATTAT 3240

AACCACTTAC AGTGTCTTAT ATTTTGTGT TTAACCTTTG TTTCTTAACA TTTAGAATAT 3300
TACATTTTGT ATTATACAGT ACCTTTCTCA GACATTTTGT AG

Seq ID NO: 496 Protein sequence
Protein Accession #: NP_003497.1

5
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1 11 21 31 41 51
MEMPTFLLC IFLPLLRGHS LFTCEPITVP RCMKMYNMT FFPNLMGHYD QSIAAVEMEH 60
LECDRLQYCD ETVPVTFDPH TEFLGPQKKT EQVQRDIGFW CPRHLKTSGG QGYKFLGIDQ 120
CAPPCPNMYFI KSDELEFAKS FIGTVSIFCL CATLPTFLTF LIDVRRFRYP ERPIIYYSVC 180
YSIVSLMYFI GPLLGDSTAC NKADEKLELG DTVVLGSQNK ACTVLFMLLY FFMAGTVVW 240
VILTITWPLA AGRKWSCEAI EQKAVWFHAV AWGTPGFLLV MLLALNKVEG DNISGVCVFG 300
LYDLASRYF VLLPLCLCVF VGLSLLLAGI ISLNHVRQVI QHDGRNQSKL KKFMRIGVF 360
SGLYLVPLVT LLGCYVYBQV NRITWEITWV SDHCRQYHIP CPYQAKAKAR PELALFMKY 420
LMTLIVGLISA VFWVSGSKTC TEWAGFFKRN RKRDPISER RVLQESCEFF LKHSKVKHK 480
KKHYKPSSEHK LKVISKSMGT STGATANHGT SAVAITSHDY LGQETLTFIQ TSPETSMREV 540
KADGASTPRL REPDCEPAS PAASISRLSG EQVDGKGQAG SVSESARSEG RISPKSDITD 600
TGLAQSNLQ VPSSEPESSL KGSTSLLVHP VSGVRKEQGG GCHSDT

Seq ID NO: 497 DNA sequence
Nucleic Acid Accession #: NM_005046
Coding sequence: 16..777

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45
1 11 21 31 41 51
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TGTGCAAGAG GCTCCACACC ATGGCAGGTG GCCCTGCTCA GTGGCAATCA GCTCCACTGC 180
GGAGGCGTCC TGGTCAATGA GCGCTGGGTG CTCAGTGCCG CCCACTGCAA GATGAATGAG 240
TACACCGTGC ACCTGGGCAG TGATACGCTG GCGACAGGA GAGCTCAGAG GATCAAGGCC 300
TCGAAGTCAT TCGGCCACCC CGGCTACTCC ACACAGACCC ATGTTAATGA CCTCATGCTC 360
GTGAAGCTCA ATAGCCAGGC CAGGCTGTCA TCCATGGTGA AGAAAGTCAG GCTGCCCTCC 420
CGCTGCGAAC CCCCTGGAAC CACCTGTACT GTCTCCGCT GGGGCACCTAC CACGAGCCCA 480
GATGTGACCT TTCTCTCTGA CCTCATGTGC GTGGATGTCA AGCTCATCTC CCCCAGGAC 540
TGCAAGAGG TTTACAAGGA CTACTGTGAA AATTCATGCT TGTGCGCTGG CATCCCGGAC 600
TCCAAGAAA ACGCTGCAA TGGTGACTCA GGGGACCGT TGGTGTGAG AGGTACCCCTG 660
CAAGGTCTGG TGTCTGGGG AACTTCCCTT TGGGCCAAC CCAATGACCC AGGAGTCTAC 720
ACTCAAGTGT GCAAGTTCAC CAAGTGGATA AATGACACCA TGAAAAAGCA TCGCTAACGC 780
CACACTAGT TAATTAAGT TGTGCTTCCA ACAGAAAATG CACAGGAGTG AGGACGCCGA 840
TGACCTATGA AGTCAAAATTT GACTTTACCT TTCCTCAAAG ATATATTAA ACCTCATGCC 900
CTGTTGATAA ACCAATCAA TTGGTAAAGA CCTAAAAACA AACAAATAA AGAAACACAA 960
AACCTCAA

Seq ID NO: 498 Protein sequence
Protein Accession #: NP_005037

50
55
1 11 21 31 41 51
MARSLLLPLQ ILLLSLALET AGEEAQGDKI IDGAPCARGS HPWQVALLSG NQLHCGGVLV 60
NERWVLTAAH CKMNEYTVHL GSDTLGDRRA QRIKASKSFR HPGYSTQTHV NDMLVVKLNS 120
QARLSSMVKK VRLPSRCPEP GTTCTVSGWG TTSPDVTFP SLMCVDVKL ISPODCTKVY 180
KDLLENSMLC AGIPDSKQNA CNGDSGGPLV CRGTLQGLVS WGTFFCGQPN DPGVYTQVCK 240
FTKWINDTMK KHR

Seq ID NO: 499 DNA sequence
Nucleic Acid Accession #: NM_007196
Coding sequence: 182..962

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1 11 21 31 41 51
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GATTCCCACT TAAAGGCTC CAGAATCGTG TACCAGGCAG AGAACTGAAG TACTGGGGCC 120
TCTCTCACTG GGTCCGAATC AGTAGGTGAC CCGGCCCTG GATTCTGGAA GACCTACCA 180
TGGGACGCCC CCGACCTCGT GCGGCCAAGA CGTGGATGTT CTTGCTCTTG CTGGGGGGAG 240
CTGCGGCAGG AACTCCAGG GCACAGGAGG ACAAGGTGCT GGGGGGTCT GAGTGCCAAC 300
CCCATTCGCA GCCTTGGCAG GCGGCCTTGT TCCAGGGCCA GCAACTACTC TGTGGCGGTG 360
TCCTTGTAGG TGGCAACTGG GTCCCTACAG CTGCCCACTG TAAAAAACCG AAATACACAG 420
TAGCCTTGGG AGACCACAGC CTACAGAATA AAGATGGCCC AGAGCAAGAA ATACCTGTGG 480
TTCAGTCCAT CCCACACCCC TGCTACAACA GCAGOGATGT GGAGGACCCAC AACCATGATC 540
TGATGCTTCT TCAACTGCGT GACCAGGCAT CCCTGGGGTC CAAAGTGAAG CCCATCAGCC 600
TGGCAGATCA TTGCACCCAG CCTGGCCAGA AGTGACCCGT CTCAGGCTGG GGCACGTGCA 660
CCAGTCCCCG AGAGAATTTT CCTGACACTC TCAACTGTGC AGAAGTAAAA ATCTTTCCCC 720
AGAAGAAAGT TGAGGATGCT TACCGGGGGC AGATCACAGA TGGCATGGTC TGTGCAGGCA 780
GCAGCAAGAG GGTGACACAG TGCCAGGGCG ATTCTGGAGG CCCCCTGGTG TGTGATGGT 840
CACTCCAGGG CATCACATCC TGGGGCTCAG ACCCTGTGG GAGGTCCGAC AAACCTGGCG 900
TCTATACCAA CATCTGCCG TACCTGGACT GGATCAAGAA GATCATAGGC AGCAAGGGCT 960
GATTCTAGGA TAAGCACTAG ATCTCCCTTA ATAACTCAC AACTCTC

Seq ID NO: 500 Protein sequence
Protein Accession #: NP_009127

1 11 21 31 41 51

5 MGRPRPRAAK TWMFLLLGG AWAGHSRAQE DKVLGGHECQ PHSQPWQAAAL FQGQQLLCGG 60
 VLVGGNWLVT AAHCKKPKYT VRLGDHSLQN KDGPEQEIPV VQSIHPHCYN SSDVEDHNHD 120
 LMLQLLRDQA SLGSKVKPIS LADHCTQPGQ KCTVSGWGTV TSPRENFPDT LNCAEVKIFP 180
 QKKCEDAYPG QITDGMVCAG SSKGADTCQG DSGGPLVCDG ALQGITSMGS DPCGRSDKPG 240
 VYTNICRYLD WIKKIIGSKG

Seq ID NO: 501 DNA sequence
 Nucleic Acid Accession #: NM_006103
 Coding sequence: 29..406

15 1 11 21 31 41 51
 CACCTGCACC CGCCCCGGG ATAGCACCAT GCCTGCTTGT CGCCTAGGCC CGCTAGCCGC 60
 CGCCCTCCTC CTCAGCCTGC TGCTGTTGGG CTTCACCCCTA GTCTCAGGCA CAGGAGCAGA 120
 GAAGACTGGC GTGTGCCCGG AGCTCCAGGC TGACCAGAAC TGACACGCAAG AGTGCCTCTC 180
 GGACAGCGAA TGCGCCGACA ACCTCAAGTG CTGCAGCGCG GGCTGTGCCA CCTTCTGCCT 240
 TCTCTGCCCA AATGATAAGG AGGGTTCTCTG CCCCCAGGTG AACATTAACT TTCCCCAGCT 300
 CGGCTCTGT CGGACCAAGT GCCAGGTGGA CAGCCAGTGT CCTGGCCAGA TGAATGCTG 360
 20 CGCAATGGC TGTGGGAAGG TGTCTGTGT CACTCCCAAT TTCTGAGGTC CAGCCACCAC 420
 CAGGCTGAGC AGTGAGGAGA GAAAGTTTCT GCCTGGCCCT GCATCTGTTT CCAGCCACC 480
 TGCCCTCCCC TTTTTCGGGA CTCTGTATTC CCTCTGGGC TGACCACAGC TTCTCCCTTT 540
 CCCAACCAAT AAGATAACCA CTTCAGCAA AAAAAAAAAA AAAA

25 Seq ID NO: 502 Protein sequence
 Protein Accession #: NP_006094

30 1 11 21 31 41 51
 MPACRLGFLA AALLLSLLLF GFTLVSGTGA EKTGVCPQLQ ADQNTQECV SDSECADNLK 60
 CCSAGCATFC LLCPNDKEGS CPQVNIFFPQ LGLCRDQCQV DSQCPGQMKC CRNGCGKVSC 120
 VTFNF

35 Seq ID NO: 503 DNA sequence
 Nucleic Acid Accession #: NM_002407
 Coding sequence: 65..352

40 1 11 21 31 41 51
 CCTCCACAGC AACTTCCTTG ATCCCTGCCA CGCAGGACTG AACACAGACA GCAGCCGCCT 60
 CGCCATGAAG CTGCTGATGG TCCTCATGCT GGCGGCCCTC CTCTGCACT GCTATGCAGA 120
 TTTCTGGCTC AACTCCTGG AGGACATGGT TGAAGAAGACC ATCAATTCGG ACATATCTAT 180
 ACCTGAATAC AAGAGCTTC TTCAAGAGTT CATAGACAGT GATGCGCTG CAGAGGCTAT 240
 45 GGGGAAATTC AAGCAGTGT TCCTCAACCA GTCAATAGA ACTCTGAAA ACTTTGGACT 300
 GATGATGCAT ACAGTGTAGC ACAGCATTG GTGTAATATG AAGAGTAAT AACTTTACCC 360
 AAGCGCTTTG GCTCAGAGGG CTACAGACTA TGGCCAGAAC TCATCTGTGT ATTGCTAGAA 420
 ACCACTTTTC TTTCTGTGT TGTCTTTTA TGTGGAACCT GCTAGACAAC TGTGAAACC 480
 TCAAAATCAT TTCAATTCA ATAATACT GCAATC

50 Seq ID NO: 504 Protein sequence
 Protein Accession #: NP_002398

55 1 11 21 31 41 51
 MKLMLVLMIA ALLLECYADS GCKLLEDMEV KTINSDISIP EYKELLQBEI DSDAAAEAMG 60
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60 Seq ID NO: 505 DNA sequence
 Nucleic Acid Accession #: NM_014791.1
 Coding sequence: 171..2126

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Seq ID NO: 506 Protein sequence
Protein Accession #: NP_055606.1

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Seq ID NO: 507 DNA sequence
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Seq ID NO: 508 Protein sequence
Protein Accession #: NP_000573

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1 11 21 31 41 51
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 DFPTDLAPTE VFTPVVPTVD TYDGRGDSV YGLRSKSKF RRPDIQYPA TDEDITSHME 180
 SEELNGAYKA IPVQDLNAP SDWDSRGKDS YETSQLDDQS AETHSHKQSR LYKRKANDES 240
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Seq ID NO: 509 DNA sequence
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Coding sequence: 34..2457

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	GCCGAGGGCA	CGCGGCGCGA	GGGCTACACC	GAGTTACGCC	TCCGCGTGGA	GGGCGACCCC	240
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	GAAGAAATTC	GACACACAG	TGATGAGGTC	TCACCGTCA	TCAAAGCCAA	AGCCCAATGG	900
	CCAGCCTGGC	AGCCTCTCAA	CGTGAGAGCA	GCACCTTCAG	CTGAATTTTC	CGTGCAGACA	960
	ACGCGCCATT	TAATGTCCTT	CCTGACCATG	ATGGGCCCTA	GTCCCGACTG	GAACGTAGGC	1020
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	CTGATTCCCT	GGGACGCTGG	CACCGACAGC	GGGGTGACCT	ATGAGTCACC	CAACAAACCC	1140
	ACCATTTCCC	AGGAGAAAT	COGGCCCTCG	ACCGCCTGG	ACCATCTCA	GAGTCTTTTC	1200
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Seq ID NO: 510 Protein sequence
Protein Accession #: BAB18461.1

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15     PDTQDFQPCM GPSCSDEDEGS TCTMSEWITW SPCSISCGMG MRSRERYVKQ FPEDEGSVCTL 540
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Seq ID NO: 512 Protein sequence
Protein Accession #: NP_003099.1

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QEPDEDEEP FHQQLLPQG QQPQLLRRY NVAKVPASPT LSSSAESPEG ASLYDEVVRAG 300
ATSGAGGCSR LYYSFKNITK QHPPPLAQPA LSPASSRSVS TSSSSSSGSS SGSSGEDADD 360
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Seq ID NO: 513 DNA sequence
Nucleic Acid Accession #: CAT Cluster

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80     1      11      21      31      41      51
|      |      |      |      |      |
GGTGGACCTA AATCTGATAA CTGGCTTATT ATGTAATTTA TTGGTGTATT TATAGTAGAG 60
ATTGGTAATC TACAGTAAGA TTTTCAGTTA GGATTTGAGA TTATGATAAT AACTAATAGA 120
ATATTCTTAA ATTGGAATTA GAAGATTGTT GTATGACAGA GAGTCAGGAC TTGCCATTGG 180

```

5 GCAACATCA AAGTCATTGT TTGGTGTGTA ATAGTACAAA ATCATCTTGC TTAACAGAGA 240
 AAGGATATCT GTTGCTCCCG AATGAAACAA TTTTCTGTAA ATAGAGGGCC CAGAATTGGT 300
 CTCTGACAA TAATAAGAC ATCAAAGATA GCAAAATGAT TTTTATATCT TAGGGCCAAT 360
 ACTACCAATT TAATAATTAA AACAAATTCT GGTGAGCTCT GAATCTGGCA GAATTGGTGG 420
 CAACATAGAC TTTGGATTTT CCAAATTCCT CACATAAAAC AAAGGGGATC AACTAGATAG 480
 AAAACCCGA AACCTTTGGA AATATCTGTT TAAAAAATA AAAAAGTCGA CGCGGGCC

Seq ID NO: 514 DNA sequence
 Nucleic Acid Accession #: CAT cluster

10

1 11 21 31 41 51
 15 GGAGCCACAG TGAAGTCAA GAATGTCAGT GATTCACAT TTAATATCTA CATTTTGTCA 60
 GGGCAGTTAC TCTTTGTAG TATAACATTG AGCTGATAGC ACATAGTGTA GACAAGTGAA 120
 TACAGGATTG TCTGGGTTGT ATTCCAGAA GTCTGGAGGT CATTGGATA TTTGTGGGCC 180
 CTGGCTTCA CTCTGACTTG TGTGACACAT AAAAATTGTG ATGAAATGTC CTATAGATGT 240
 CCTGCAGGTC TTAAGAAGAC CTTTCCAAAC TATGAAACAG CCCAGCAGCA CTGAGTTAGA 300
 20 GGTAAATCTT GAACCTTGA AACTAAAAC TATTCTAACT GCACATAGAA TTGGCAAGTA 360
 GCATTTCTATG TCTATGAACA GTATGTCCTT TCTATATAAC AGAGAAAATC TTTTAAAGCA 420
 AACTACTCAG TTTAAACCT AATTCTTCTC ATAATCTCAG TACTTTTGAA TGAAGACATA 480
 TCAATGCAAC AGTACACTCT TATTGAGGCA TTTGAAAGAA AGAATTCGAG ATCTAGTTTG 540
 TATCAGATAT TATAAATTAG TATGGTTTAG TCTTTGTCTA GAAATCTAC TTAATTTTGT 600
 GACTATAGGT TTAAGAATGT AAGCAGAAAT TCTGCACCAA TCAGAATAAG CTACATTATG 660
 25 CTGAGTGAC AACTACTGTA ATGACAAAT ATCAGTGGCT TAATACAATG GTTTTCTCT 720
 CATACTTGTT CATAAAGAGT CAGCAAGGAC CCTGCTCATT ATGGTCCCTC AGGGACCCAG 780
 GGTGTGTGGA AGCTCCACCA TTTTAGATAG CTCCCTTCAA AGTCAGCCAT CTTTGGCAGT 840
 CCATGTCCTC CAACAGGCTG GCAAAATTG GCTCTGGATG GCTTCAAGGA TTGAGCATCG 900
 GGCAGTTTAA ATGCTTTCAA CATGAAAGT GGACACCGGC CACTCCCACT CACATCCCTT 960
 30 GGGCCAGAAC TAGGTCACTG GGCCCGGACC TAACTTCGGA GGGTTGGGGA ATTGTAATTC 1020
 CTCATGTAC CCAAGTGGGA GAGAAGCCAG ATACTGAGAA ACATCAATAA TGGCTAACAG 1080
 AAATCCATTC TACCATTCCC TTTGCCATAA GTGAAAGAT GAGTACTTTC ATCAATTGT 1140
 AAATCTGACT TTTGAAGTAA ATCCCTGGTAG CTTCATGGG GGCTGGATT CCAGAAAGCC 1200
 35 ATATGTAATT TGGGAATGAC ATTCACITAA GCTCATAGAA TATCATTATT TGATGTAAAA 1260
 TGCCCTCATT TGCAATACAG GACCAAAATG CACTAACCCAC AAAACCCCCC TCCCCACGGG 1320
 GCCCGGGGTC TCCATCCCTT TAAATGAGGC ATTCTATGAT TTGGAATGGA 1380
 AGCCAGGTG TAGTCGTAAAG AATTTTACTT AATTCAAGAA TTATCTCAC TGAATATGTG 1440
 CCAGTTCTGA AAGGAATGCA AAGTCAAATT TTGCATCTTC TTTGCTCAAG GGCCTTTAGA 1500
 40 TGTAAACAAC CAGACATGAT ACAAGGCTGA CAATGACATT ATGATTAAAA TATGTTAAAC 1560
 AACTATTATA ATTGTGAATC AACAAAAAT TATGTTCTTT ATTTTATGGT TTTCATAGT 1620
 CCTGACTCAC TGCTACATA CCCCCTTGT TCCTCAGTTC TTATCCCTGA TTTCTTACAG 1680
 GATGGCCTAA GACAGCTGTA GATGTTTTTA TTTAGCAAAA AAAAAAATA AAAAGTCGAC 1740
 GCGGCCGGA ATTTAGTAG

45 Seq ID NO: 515 DNA sequence
 Nucleic Acid Accession #: NM_012427
 Coding sequence: 41..924

50 1 11 21 31 41 51
 CTGTGTGTTT CTCTCTACTT GGGGAAATCA GGTGCAGGG CCATGGCTAC AGCAAGACCC 60
 CCTCGGATGT GGGTGTCTGT TGCTCTGATC ACAGCCTTGC TTCTGGGGGT CACAGAGCAT 120
 GTTCTCGCCA ACAATGATGT TTCTGTGAC CACCCCTCTA ACACCGTGCC CTCTGGGAGC 180
 55 AACCCAGACC TGGGAGCTGG GGGCGGGGAA GAGCGCCGGT CGGATGACAG CAGCAGCCGC 240
 ATCATCAATG GATCCGACTG CGATATGCAC ACCAGCCGCT GGCAGGCGGC GCTGTTGCTA 300
 AGGCCCAACC AGCTCTACTG CGGGGCGGTG TTGGTGCATC CACAGTGGCT GCTCAAGGCC 360
 GCGCACTGCA GGAAGAAAGT TTTGAGATC CGTCTCGGCC ACTACTCCCT GTCAACAGTT 420
 TATGAATCTG GGCAGCAGAT GTTCCAGGGG GTCAAAATCA TCCCCACCC TGGCTACTCC 480
 60 CACCCCTGGC ACTCTAAGCA CCTCATGCTC ATCAAACTGA ACAGAAGAAT TCGTCCCACT 540
 AAAGATGTCA GACCCATCAA CGTCTCCTCT CATGTCCCT CTGCTGGGAC AAAGTGCTTG 600
 GTGTCTGGCT GGGGACAAAC CAAGAGCCCC CAAGTGCACT TCCCTAAGT CCTCCAGTGC 660
 TTGAATATCA GCGTGTAAAG TCAGAAAAGG TGCGAGGATG CTTACCGAG ACAGATAGAT 720
 GACACCATGT TCTGCGCCGG TGACAAAGCA GGTAGAGACT CCTGCCAGGG TGATTCTGGG 780
 65 GGGCCTGTGG TCTGCAATGG CTCCTGCGAG GGAATCGTGT CCTGGGGAGA TTACCTTGT 840
 GCCCGGCCCA ACAGACCGGG TGTCTACAG AACCTCTGCA AGTTCACCAA GTGGATCCAG 900
 GAAACCATCC AGGCCAATCT CTGAGTCATC CCAGGACTCA GCACACCGGC ATCCCCACCT 960
 GCTGCAGGGA CAGCCCTGAC ACTCCTTCA GACCCCTCAT CCTTCCAGGA GATGTTGAGA 1020
 70 ATGTTCTATC TCCAGCCCC TGACCCCATG TCTCCTGGAC TCAGGGTCTG CTCCCCAC 1080
 ATTGGGCTGA CCGTGTCTCT CTAGTTGAAC CCTGGGAACA ATTTCCAAAA CTGTCCAGGG 1140
 CGGGGGTTGC GTCTCAATCT CCCCCTGGCA CTTTCATCT CAAGCTCAGG GCCCATCCCT 1200
 TCTCTGACG TCTGACCCAA ATTTAGTCCC AGAAATAAAC TGAGAAGTGG AAAAAAATA

Seq ID NO: 516 Protein sequence
 Protein Accession #: NP_036559

75

1 11 21 31 41 51
 80 MATARPPWMV VLICALITALL LGVTEHVLAN NDVSCDHPSN TVPSGSNQDL GAGAGEDARS 60
 DSSSRILNG SDCMHTQPW QAALLLRPNQ LYCGAVLVHP QWLLTAHCR KKVFRVRLGH 120
 YSLSPVYESG QQMPQGVKSI PHPGYSHPGH SNDMLMLIKLN RRIRPTKDV R PINVSSHCP 180
 AGTKCLVSGW GTTKSPQVHF PKVLQCLNIS VLSQKRCEDA YPRQIDDTMF CAGDKAGRDS 240
 CQDGGSPV CNGSLQLVLS WGDYPCARPN RGVVITNLCK FTKWQETIQ ANS

Seq ID NO: 517 DNA sequence
Nucleic Acid Accession #: NM_001719
Coding sequence: 123..1418

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5      1      11      21      31      41      51
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      GGGCGCAGCG GGGCCCGTCT GCAGCAAGTG ACCGACGGCC GGGACGGCCG CTGCCCCCT 60
      CTGCCACCTG GGGCGGTGCG GGCCTCGAGC CCGAGCCCG GGTAGCGCGT AGAGCCGGCG 120
      CGATGCACGT GCGCTCACTG CGAGCTGCGG CCGCCACACG CTTCGTGGCG CTCTGGGCAC 180
      CCTGTCTCTT GCTGCGCTCC GCCCTGGCCG ACTTCAGCCT GGACAACGAG GTGCACTCGA 240
      GCTTCATCCA CCGGCGCTTC CGCAGCCAGG AGCGGCGGGA GATGCAGCGC GAGATCCTCT 300
      CCATTGTGGG CTTGCCCCAC CGCCCGCGCC CGCACCTCCA GGGCAAGCAC AACTCGGCAC 360
      CCATGTTTAT GCTGGAGCTG TACAACGCCA TGGCGGTGGA GGAGGGCGGC GGGCCCGGCG 420
      GCCAGGGCTT CTCCTACCCC TACAAGGCCG TCTTCAGTAC CCAGGGCCCC CCTCTGGCCA 480
      GCCTGCACGA TAGCAATTTT CTCACCGACG CCGACATGGT CATGAGCTTC GTCAACCTCG 540
      TGGAAACATGA CAAGGAATTC TTCCACCCAC GCTACCCACA TCGAGAGTTC CGGTTTGATC 600
      TTTCACAGAT CCCAAGAGG GAAGCTGTCA CGGCAGCCGA ATTCGGGATC TACAAGGACT 660
      ACATCCGGGA ACCTCTCGAC AATGAGACGT TCCGGATCAG CGTTTATCAG GTGCTCCAGT 720
      AGCACTTGGG CAGGGAATCG GATCTCTTCC TGCTCGACAG CGTACCCTTC TGGGCTCGG 780
      AGGAGGGCTG GCTGGTGTTC GACATCAACG CCACCGACAA CCACTGGGTG GTCAATCGCG 840
      GGCACAACTG CCGGCGCTTC CTCTCGGTGG AGACGTGGA TGGGCGAGAG ATCAACCCCA 900
      AGTTGGGGGG CCTGATTGGG CGGCACGGGC CCCAGAACAA GCAGCCCTTC ATGGTGGCTT 960
      TCTTCAAGGC CACGAGGTC CACTTCCGCA GCATCCGTC CACGGGAGC AAACAGCGCA 1020
      GCCAAGACCG CTCCAAGACG CCCAAGAACC AGGAAGCCCT GCGGATGGCC AACGTGGCAG 1080
      AGAACACAGC CAGCGACACG AGGCAGGCCT GTAAGAAGCA CGAGCTGTAT GTCACTTCC 1140
      GAGACCTGGG CAGGCAAGAC TGGATCATCG CGCCTGAAGG CTACGCCGCC TACTACTGTG 1200
      AGGGGGAGTG TGCCCTCCCT CTGAATCTCT ACATGAACGC CACCAACACG GCCATCGTGC 1260
      AGACGCTGGT CACCTTCATC AACCCGGAAG CGGTGCCCAA GCCCTGCTGT GCGCCACGCG 1320
      AGCTCAATGC CATCTCGTTC CTCTACTTCG ATGACAGCTC CAACGTCTAT CTGAAGAAAT 1380
      ACAGAAACAT GGTGGTCCGG GCCTGTGGCT GCCACTAGCT CCTCCGAGAA TTCAGACCTT 1440
      TTGGGGCCAA GTTTTCTGG ATCCTCCATT GCTCGCCTTG GCCAGGAACC AGCAGACCAA 1500
      CTGCGCTTTG TGAGACCTTC CCTCCCTAT CCCCACTTT AAAGGTGTGA GAGTATTAGG 1560
      AAACATGAGC AGCATATGCG TTTTGATCAG TTTTTCAGTG GCAGCATCCA ATGAACAAGA 1620
      TCCTACAGC TGTCAGGCA AAACCTAGCA GGAACAAAAA ACAACGCATA AAGAAAAATG 1680
      GCCGGGCCAG GTCAATGGCT GGGAAAGTCT AGCCATGCAC GGACTCGTTT CCAGAGGTAA 1740
      TTATGACCGC CTACACGCCA GGCCACCCAG CCGTGGGAGG AAGGGGGCGT GGCAGGGGT 1800
      GGGCACATTG GTGTCTGTGC GAAAGGAAAA TTGACCCGGA AGTTCCTGTA ATAAATGTCA 1860
      CAATAAAACG AATGAATG
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40 Seq ID NO: 518 Protein sequence
Protein Accession #: NP_001710

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45      1      11      21      31      41      51
      |      |      |      |      |      |
      MHVRLRAAA PHSFVALWAP LPLRLSALAD FSLDNEVHSS FIHRLRLRSQE RREMQREILS 60
      ILGLPHRFRP HLQGHNSAP MFMLDLNLYM AVEEGGGPGG QGFSYPYKAV FSTQGPPLAS 120
      LQDSHFLTDA DMVMSFVNLV EHDKEFFHPR YHHRERFDL SKIPEGEAVT AAEFRIYKDY 180
      IRERFDNETF RISVYQVLQE HLGRESDLPL LDSRTLWASE EOWLVEFDITA TSNHWVNVPR 240
      HNLGLQLSVE TLDGQSINPK LAGLIGRHGP QNKQPFMVAF FKATEVHFRS IRSTGSKQRS 300
      QNRSTKPNQV EALRMANVAE NSSSDQRQAC KKHLYVSPFR DLGQWDWIIA PEGYAAYYCE 360
      GECAFFLNSY MNATNHAIVQ TLVHFINPET VPKPCCAPTQ LNAISVLVYD DSSNVILKKY 420
      RNMVVRACG H
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55 Seq ID NO: 519 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 264..782

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60      1      11      21      31      41      51
      |      |      |      |      |      |
      CCTGTCTCCA GTCACACCCG GAAGCTGACT GGTCCACGCA CAGCTGAAGC ATGAGGAAAC 60
      TCATCGCGGG ACTAATTTTC CTTAAAATT AGACTTGCAC AGTAAGGACT TCAACTGACC 120
      TTCTCAGACG TGAGAACTGT TTCCAGTATA TACATCAAGT CACTGAGATC TCCAGCACCC 180
      TGCCGCTGGC ACTACTGAGA GACGAGGTGC CAGGGTGGTT OCTGAAAGTG CCTGAGCCCC 240
      AACTTATCAG CAAGGAGCTC ATCATGCTGA CAGAAGTCAT GGAGGTCTGG CATGGCTTAG 300
      TGATCGCGGT GGTGTCCCTC TTCTGTCAGG CCTGCTTCTT CACCGCCATC AACTACCTGC 360
      TCAGCAGGCA CATGGCCAC AAGAGTGAAC AGATACTGAA AGCGGCCAGT CTCCAGTTTC 420
      CCAGGCCAG CCTGGCCAC CATCATCCAC CTGCTGTCAA AGAGATGAAG GAGACTCAGA 480
      CAGAGAGAGA CATCCCAATG TCTGATTCCC TTTACAGGCA TGACAGCGAC ACACCTCAG 540
      ATAGCTTGA TAGCTCTGC AGTTGGCCTC CTGCCTGCCA GGCCACAGAG GATGTGGATT 600
      ACACACAAGT CGTCTTTTCT GACCCCTGGAG AACTAAAAAA TGACTCCCGG CTGGACTATG 660
      AGAACATAAA GGAATACACA GATTATGTCA ATGTCAATCC AGAAAGACAC AAGCCAGTT 720
      TCTGGTATTT TGTCACCCCT GCTCTGTCTG AGCCAGCGGA ATATGATCAA GTGCCATGT 780
      GAATTCCAA TATTTTAAAT GGGGTCCAGT TCTCTATGGA TTCTTACATT TAATTTGTAG 840
      GGAATGCCA TTTTCCCCC TTAACAAGG CATGGGGCTC ACAAGTCTAT GGAGACAGGC 900
      CAAAAAGAT GTGGAGAAGA AAACCTGATA ATACACAGAG GTCCCTCAAG CCATGGACT 960
      CCTGGTCTGT ACCCAAAA GCTGTTCGTT CCTCAAAAAC AAAAAACAGG CTTGGCTGGG 1020
      AAAACAGGCC AATGCCCCG CAAGAAAGGT TGAGATCAGA TGTTAGGAAG AACTTTCAGG 1080
      TAAAGTATGA GAACTATGGA GTCCATCAGC AGAGATAGTA GTGAAGTCTC TCCCAGGGA 1140
      AAATTTTAAA AAGGTTGAAT CAGCTGTGT AGAGTCTTAT TTGGCAATCT CATGGTTAAA 1200
      TGACTTCCCT TTGAGCTCTT TAATTATTGG CAATAAACAA CTCTTTTAAA AGTTTATAAT 1260
      AAAATAGCAA CCACACCA
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Seq ID NO: 520 Protein sequence
Protein Accession #: Eos sequence

1 11 21 31 41 51
 5 MLTEVMEVWH GLVIAVVSFLF LQACFLTAIN YLLSRHMAHK SEQILKAASL QVPRPSPGHH 60
 HPPAVKMEKE TQTERDIPMS DSLYRHSDST PSDSLDSSCS SPPACQATED VDYTQVVFSD 120
 PGEKNDSPDL DYENIKBITD YVNVNPERHK PSFWYFVNPA LSEPAEYDQV AM

Seq ID NO: 521 DNA sequence

Nucleic Acid Accession #: Eos sequence

Coding sequence: 107..328

1 11 21 31 41 51
 15 CTGCTCTGTC TGAGCCAGCG GAATATGATC AAGTGGCCAT GTGAATTCCA AATATTTTTA 60
 ATGGGGTCCA GTTCTCTATG GATTCTTACA TTAAATTGT AGGGAATATG CATTTTTCCT 120
 CCTTAAACAA GGCATGGGGC TCACAAGTCT ATGGAGACAG GCCAAAAAGA ATGTGGAGAA 180
 GAAAACATGAT AAATACACAG AGGTCTCTCA GACCCATGGA CTCTGTGCTC GTACCCAAAA 240
 AAGCTGTTCG TTCTTCAAAA ACAAAAACAA GGCTTGGCTG GGAAAAACAG CCAATGCCCC 300
 20 GGCAAGAAAG GTTGAGATCA GATGTTAGGA AGAATCTTCA GGTAAAGTAT GAGAACTATG 360
 GAGTCCATCA GCAGAGATAG TAGTGAAGTC TCTCCCCAGG GAAATTTTAA AAAAGGTGTA 420
 ATCAGCTGTT TAGAGTTCT ATTTGGCAAT CTCATGGTTA AATGACTTCC CTTTGAGCTC 480
 TTTAATTATT GGCAATAAAC AACTTCTTTA AAAGTTTAA ATAAATATAG AACCCACCAC 540
 A

Seq ID NO: 522 Protein sequence

Protein Accession #: Eos sequence

1 11 21 31 41 51
 30 MPFFFLKQGM GLTSLWRQAK KNVEKKTDKY TEVLKTHGLL VCTQKSCSPL KNKNKAWLGK 60
 QANAPARKVE IRC

Seq ID NO: 523 DNA sequence

Nucleic Acid Accession #: Eos sequence

Coding sequence: 211..1895

1 11 21 31 41 51
 40 GGATCTGAGG GGCSCCCAGT CACTTCCTCC ACGTTCCTCGT GCTGGGCGGG AGGAGCGGAT 60
 GGGGCTTGGG AGGCAGCCTG CTCTCCAGTC CCTATCCACC CACAGGTTT TTGGGTGCGA 120
 GAGGAATTAT CTGATAAAAT TCCTGGGTTA ATATTTTAA AAACGGAGAG TTTTAAAAAA 180
 TGATTTTTT CCCTCGAAAA TGACCTTTT ATGCTTCGAA GCAGTTTGTG AACCCAGCATA 240
 GTGCTTTTTC TTTTCTCTTC TTTTCTACG ATAAATGAAA GCATTTCTTC AAGAAAAAGG 300
 45 CACAGGTTC TTGAACAGCT GATTTCTGAT GGCACCATTA CTATAGAGGA GCAGATTGTC 360
 CTGTGTGTA AAGCGAAAGT ACAATGTGAA CTCAACATCA CAGCTCAACT CCAGGAGGGA 420
 GAAGGTAATT GTTCCCTCTA ATGGGATGGA CTCATTGTG GTGCCAGAGG AACAGTGGGG 480
 AAAATATCGG CTGTTCCTAT CCCTCCTTAT ATTTATGACT TCAACCATAA AGGAGTTGCT 540
 TTCCGACACT GTAACCCCAA TGAACATGG GATTTTATGC ACAGCTTAAA TAAACATGG 600
 50 GCCAATTATT CAGACTGCCT TCGCTTCTG CAGCCAGATA TCAGCATAGG AAAGCAAGAA 660
 TTCTTTGAAC GCCTCTATGT AATGTATACC GTTGGCTACT CCATCTCTTT TGGTTCTCTG 720
 GCTGTGGCTA TTCTCATCAT TGGTTACTTC AGACGATTGC ATTGCACTAG GAACATATATC 780
 CACATGCACT TATTTGTGTC TTTCTGCTG AGAGCTACAA GCATCTTTGT CAAAGACAGA 840
 GTAGTCCATG ATGCGAGGTG AGTAAAGGAG CTGGAGTCCC TAATAATGCA GGTGACCCA 900
 55 CAAAATTCOA TTGAGGCAAC TTCTGTGGAC AAATCACAAT ATATCGGGTG CAAGATTGCT 960
 GTTGTGATGT TTATTTACTT CCGGTCTACA AATTATTATT GGATCTCTGT GGAAGGTCTC 1020
 TACCTGCATA ATCTCATCTT TGTGGCTTTC TTTTCGACA CCAATACCT GTGGGGCTTC 1080
 ATCTGTATAG GCTGGGGGTT TCCAGCAGCA TTTGTTCGAG CATGGGCTGT GGCACGAGCA 1140
 ACTCTGGCTG ATGCGAGGTG CTGGGAACCT AGTCTGGAG ACATCAAGTG GATTATCAAA 1200
 60 GCACCCATCT TAGCAGCTAT TGGGCTGAAT TTTATTCTGT TTCTGAATAC GGTTAGAGTT 1260
 CTAGCTACCA AAATCTGGGA GACCAATGCA GTTGGGCATG ACACAAGGAA GCAATACAGG 1320
 AAATCGGCA AATCGACACT GGTCTGGTC CTAGTCTTTG GAGTGCAATTA CATCGTGTTC 1380
 GTATGCTGCT CTCACCTCTT CACTGGGCTC GGGTGGGAGA TCCGCATGCA CTGTGAGCTC 1440
 TTCTTCAACT CCTTTCAGGG TTTCTTTGTG TCTATCATCT ACTGCTACTG CAATGGAGAG 1500
 65 GTTCAGSCAG AGGTGAAGAA GATGTGGAGT CGGTGGAATC TCTCGTGA CTGGAAGAGG 1560
 ACACCCCAT GTGGCAGCCG CAGATGCGGC TCAGTGCTCA CCACCGTGAC GCACAGCACC 1620
 AGCAGCCAGT CACAGGTGGC GGCCAGCACA CGCATGTGTC TTATCTCTGG CAAAGCTGCC 1680
 AAGATCGCCA GCAGACAGCC TGACAGCCAC ATCACTTTAC CTGGCTATGT CTGGAGTAAC 1740
 TCAGACGAGG ACTGCTGCC ACACCTTTTC CACGAGGAGA CCAAGGAAGA TAGTGGGAGG 1800
 70 CAGGAGATG ATATTCTAAT GGAGAAGCCT TCCAGGCCTA TGAATCTAA CCCAGACACT 1860
 GAAGGATGCC AAGGAGAAAC TGAGGATGTT CTCTGA

Seq ID NO: 524 Protein sequence

Protein Accession #: Eos sequence

1 11 21 31 41 51
 75 MLRSSLSSTI VLFLFSSPST INESISRRKR HRFLEQLDSD GTITIEQIV LVLKAKVQCE 60
 LNTIATLQGG EGNCFPEWDG LICNPRGTVG KISAVPCPPY IYDENHKGVA FRHCNPNGTW 120
 80 DFHSLNKTW ANYSDCLRFL QPDISIGKQE FFERLYVMYT VGYSISFGSL AVAILIIGYF 180
 RRLHCTRNXY HMLFVFSFML RATSIFVKDR VVHAHIGVKE LESLIMQDDP QNSIEATSVD 240
 KSYIGCKIA VVMFIYFLAT NYYNILVEGL YLHNLIFVAF FSDTKYLWGF ILIGWGFPA 300
 FVAANAVARA TLADARCWEL SAGDIKNIYQ APILAAIGLN FILPLNTVRV LATKIWETNA 360
 VGHDTKQYR KLAKSLVLV LVFGVHYIVF VCLPHSFTGL GWEIRMHCEL FENSFGQFFV 420
 SIICYCNGE VQAEVKMWS RWNLSVDWKR TPQGSRRGC SVLTTVTHTS SSQSQAAS 480

RMVLISGKAA KIASRQPDSDH ITPGYVWSN SEQDCLPHSP HEETKEDSGR QGDDILMEKP 540
SRPMESNPDT EGCGETEDV L

Seq ID NO: 525 DNA sequence

Nucleic Acid Accession #: NM_005048

Coding sequence: 143..1795

1 11 21 31 41 51
10 | | | | |
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TGGCCAGACC AAGTTGGCAA CTGGAAGCT TCTCCGGGC TCTGGAGAG GGTCCCTGCT 120
TCTTCCFACA GCCGTTCCGG GCATGGCCGG GCTGGGGGGC TCGCTCCACG TCTGGGGTTG 180
GCTAATGCTC GGCAGCTGCC TCCTGGCCAG AGCCAGCTG GATTCTGATG GCACCATAC 240
15 TATAGAGGAG CAGATTGTCC TTGTGCTGAA AGCGAAAGTA CAATGTGAAC TCAACATCAC 300
AGCTCAACTC CAGGAGGGAG AAGGTAATTG TTCCCTGAA TGGGATGGAC TCATTGTGTT 360
GCCCAGAGGA ACAGTGGGGA AAATATCGGC TGTCCATGC CCTCCTTATA TTTATGACTT 420
CAACCAATAA GGAGTTGCTT TCCGACACTG TAACCCCAAT GGAACATGGG ATTTTATGCA 480
CAGCTTAAAT AAAACATGGG CCAATTATTC AGACTGCCTT CGCTTCTGC AGCCAGATAT 540
20 CAGCATAGGA AAGCAAGAAT TCTTTGAACG CCTCTATGTA ATGTATACCG TTGGCTACTC 600
CATCTCTTTT GGTTCCCTGG CTGTGGCTAT TCTCATCATT GGTTACTTCA GAGGATTGCA 660
TTGCATAGG AACTATATCC ACATGCACCT ATTTGTGTCT TTCTATGCTGA GAGCTACAAG 720
CATCTTTGTC AAAGACAGAG TAGTCCATGC TCACATAGGA GTAAAGGAGC TGGAGTCCCT 780
AATAATACAG AAAATCCAC AAAATTCCAT TGAGGCACT TCTGTGGACA AATCACAATA 840
25 TATCGGTGTC AAGATTGCTG TTGTGATGTT TATTTACTTC CTGCTACAA ATTATTATTG 900
GATCCTGGTG GAAGGTCTCT ACCTGCATAA TCTCATCTTT GTGGCTTCTT TTTCCGACAC 960
CAAAATACCT TGGGGCTTCA TCTTGATAGG CTGGGGGTTT CCAGCAGCAT TTGTTGCAGC 1020
ATGGGCTGTG GCACGAGCAA CTCTGGCTGA TCGAGGTGTC TGGGAACCTA GTGCTGGAGA 1080
CATCAAGTGG ATTTATCAAG CACCGATCTT AGCAGCTATT GGGCTGAATT TTATTCTGTT 1140
30 TCTGAATACG GTTAGAGTTC TAGCTACCAA AATCTGGAG ACCAATGCAG TTGGGCATGA 1200
CACAGGAAG CAATACAGGA AACTGGCCAA ATGCACACTG GTCTGTGCTC TAGTCTTTGG 1260
AGTGCACTAC ATCGTGTTCG TATGCCTGCC TCACTCCTTC ACTGGGCTCG GGTGGGAGAT 1320
CGCATGCAC TGTGAGCTCT TCTTCAACTC CTTTCAGGCT TTCTTTGTGT CTATCATCTA 1380
CTGCTACTGC AATGGAGAGG TTCAGGACAG GGTGAAGAAG ATGTGGAGTC GGTGGAAATCT 1440
35 CTCCGTGGAC TGGAAAAGGA CACCGCCATG TGGCAGCCGC AGATGCGGCT CAGTGTCTAC 1500
CACCGTGAGC CACAGCACCA GCAGCCAGTC ACAGGTGGCG GCCAGCACAC GCATGTGTCT 1560
TATCTCTGGC AAGCTGTGCC AGATCGCCAG CAGACAGCCT GACAGCCACA TCACCTTACC 1620
TGGCTATGTC TGGAGTAATC CAGAGCAGGA CTGCCTGCCA CACTCTTTCC ACCAGGAGAC 1680
CAGGAAGATC AATGGGAGGC AGGGAGATGA TATTCTAATG GAGAAGCCTT CCAGGCCTAT 1740
40 GGAATCTAAC CCAGACACTG AAGGATGCCA AGGAGAAACT GAGGATGTTT TCTGAATGGA 1800
CATTGTGGTC GACTTGTTCG GGGCTGGTCC AATGGCTGGT TGTGTGAGAG GGCTTGGCTG 1860
ATACTCTTAT GCTGAGTTC AAAGGCTGAA AATTCACTTA AGGTGTTACT TAATAATAGT 1920
TTTTAGGCTC CATGAATGCG CTCTGTAAA TACTAACGAC ATGAAATGTC AAGTGTCAAT 1980
GGAGTAGTTT ATTACTCTCT ATTGSCATCA AGTTTCTCTC TAAATTAATG TATGGTATTT 2040
45 GCTCTGTGAT TGTTCATTTT TTTCTGCTAC TTTTGGGTAG AAAAAAGATT CAATTGCTTG 2100
GCTGTAGCTT TCTCTCATAT ATATCACCTT AAATATAATG AAGATCTTTT AGTGTGTATC 2160
ATTTCTCTTT TAGAACTAG TATTCTCTTA TTTCTTACTT TAATGTACTT CTATCACTGC 2220
ATTTATTTTG CCTGTGCTCA GGAGCAATTA GGATCTAAAA AAATATATG GAGGATAAAA 2280
GATCTAAGAA CAAGTACTTG CTGGAATAAT AGTTGGCTGG ACATTGATAA AATAATGCAT 2340
50 TTATAACAAT TACATGTGTT TTTGGGAACA AGGAAAATTT CTCAAAAAG AATATTTTAC 2400
ACATCCCTTC TTTTGAATGG CCTCTTGTG ACCAGCCAGA CCTCAGTCTT TCACCTCTTC 2460
TTCTTTGTAA ACCATGTCAT GTGGAAGATG TTCTCAGTT AGTGAGCTTG TGTCTGCAAA 2520
TTGATTTTGT TGTGAATGTA TTTTGATAGC AAATCATGCT GCATCTATAT CTTTTCCTTG 2580
TTTGAGCTGT TACTACATG TACATGSCAT GTGGATCAA TTAATAATT GTTTTAAAAA 2640
T

Seq ID NO: 526 Protein sequence

Protein Accession #: NP_005039

1 11 21 31 41 51
60 | | | | |
MAGLGASLHV WGLMLGSLC LARAQLSDG TITIEBQIVL VLKAKVQCEL NITAQLOBGE 60
GNCFPEWDGL ICNPRGTGK ISAVPCPPYI YDFNEKGVAF RHCNPNGTWD FMHSLNKTWA 120
NYSDCRLFLQ PDISIGKQEP FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRYNIH 180
65 MHLFVFSFMLR ATSIFVKORV VHAHIGVKEL ESLIMQDDPQ NSIERTSVDK SQYIGCKIAV 240
VMPFIYFLATN YYWILVEGLY LHNLIHVAF SDTKYLNQFI LIGWGFPAAP VAAMAVARAT 300
LADARCWELS AGDIKWIYQA PILAAIGLNF ILPLNTVRVL ATKIWEINAV GHDRKQYRK 360
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QAEVKIOWSR WNLSDVWKRT PFCGSRRCGS VLTVTHTSTS SQSQVAASR MVLISGKAAK 480
70 IASRQPDSDH ITPGYVWSN BQDCLPHSF EETKEDSGRQ GDDILMEKPS RPMESNPDT 540
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Seq ID NO: 527 DNA sequence

Nucleic Acid Accession #: XM_036683

Coding sequence: 38..3655

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	GGCTGGAAATG	ATAAAAGTG	ATAATGAAGA	GTATTTCAIT	GAACCCCTGG	AAAGAGGTAA	600
5	ACAGATGGAG	GAAGAAAAAG	GAAGGATTCA	TGTTGTCTAC	AAGAGATCAG	CTGTAGAACA	660
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10 Seq ID NO: 528 Protein sequence
 Protein Accession #: XP_036683

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70 Seq ID NO: 530 Protein sequence
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80 Seq ID NO: 531 DNA sequence
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 Coding sequence: 43..1104

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Protein Accession #: NP_036284

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Seq ID NO: 533 DNA sequence

Nucleic Acid Accession #: NM_002821

Coding sequence: 150..3362

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TGGATTGCCT | GACCCAGGCC | ACACCAAAAC | CTACAGTTGT | CTGGTACAGA | AACCAGATGC | 1500
TCATCTCAGA | GGACTCAACG | TTGAGGCTCT | TCAAGAAATG | GACCTTCCCG | ATCAACAGCG | 1560
TGGAGGTGTA | TGATGGGACA | TGGTACCGTT | GTATGAGCAG | CACCCAGGCC | GGCAGCATCG | 1620
AGGCGCAGC | CCGTGTCCAA | GTGCTGGAAG | AGCTCAAGTT | CACACCAACA | CCCCAGCCAC | 1680
AGCAGTGATC | GGAGTTTGAC | AAGGAGGCCA | CGGTGCCCTG | TTCAGCCACA | GGCCAGAGAG | 1740
AGCCCACTAT | TAAGTGGGAA | CGGCAGATG | GGAGCAGCCT | CCCAGAGTGG | GTGACAGACA | 1800
ACGCTGGGAC | CCTGATTTT | GCCCGGGTGA | CTCGAGATGA | CGCTGGCAAC | TACACTTGCA | 1860
TTGCTCCCAA | CGGCGCGAG | GGCCAGATTC | GTGCCATGTT | CCAGCTCACT | GTGGCAGTTT | 1920
TTATCACCTT | CAAAGTGGAA | CCAGAGCGTA | CGACTGTGTA | CCAGGGCCAC | ACAGCCCTAC | 1980
TGCACTGCGA | GGCCAGGGG | GACCCCAAGC | CGCTGATTCA | GTGGAAGGCG | AAGGACCGCA | 2040
TCCTGGACCC | CACCAAGCTG | GGACCCAGGA | TGCACTCTT | CCAGAAATGG | TCCCTGTTGA | 2100
TCCATGACGT | GGCCCTGAG | GACTCAGGCC | GCTACACCTG | CAITGCAAGC | AACAGCTGCA | 2160
ACATCAAGCA | CAGGAGGCC | CCCCTCTATG | TCGTGACAA | GCCTGTGCGG | GAGGAGTCGG | 2220
AGGGCCCTGG | CAGCCCTCCC | CCTACAGA | TGATCCAGAC | CATTGGGTTG | TCGTGGGTG | 2280
CCGCTGTGGC | CTACATCAIT | GCCGTGCTGG | GCCTCATGTT | CTACTGCAAG | AAGCGCTGCA | 2340
AAGCCAGCG | GCTGCAAGG | CAGCCCGAGG | GCGAGGAGCC | AGAGATGGAA | TGCCCTCAACG | 2400
GAGGGCTTT | GCAGAAAGG | CAGCCCTCAG | CAGAGATCCA | AGAAGAAGTG | GCCTTGACCA | 2460
GCTTGGGCTC | CGGCCCGCG | GCCACCAACA | AACGCCACAG | CACAAGTGAT | AAGATGCACT | 2520
TCCCACGCTC | TAGCTCGAG | CCCATCACA | CGCTGGGGA | GAGTGAGTTT | GGGGAGGTGT | 2580
TCCTGCAAAA | GGCTCAGGGC | TTGGAGGAGG | GAGTGGCAGA | GACCTTGTA | CTTGTGAAGA | 2640
  
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GCTTCGACAG GAAGGATGAG CAGCAGCAGC TGGACTTCCG GAGGGAGTTG GAGATGTTTG 2700
GGAAGCTGAA CCACGCCAAC GTGGTGCGCG TCCTGGGGCT GTGCCGGGAG GCTGAGCCCC 2760
ACTACATGGT GCTGGATATAT GTGGATCTGG GAGACCTCAA GCAGTTCCTG AGGATTTCCTA 2820
AGAGCAAGGA TGAATAATTG AAGTCACAGC CCCTCAGCAC CAAGCAGAAG GTGGCCCTAT 2880
GCACCCAGGT AGCCCTGGGC ATGGAGCACC TGTCCAACAA CGCTTTGTG CATAAGGACT 2940
TGGCTGCGCG TAACTGCGCTG GTCAGTGCCC AGAGACAAGT GAAGGTGTCT GCCCTGGGCC 3000
TCAGCAAGGA TGTGTACAAC AGTGAGTACT ACCACTTCCG CCAGGCCCTGG GTGCCGCTGC 3060
GCTGGATGTC CCCGAGGCC ATCCTGGAGG GTGACTTCTC TACCAAGTCT GATGTCGGG 3120
CCTTCGGTGT GCTGATGTGG GAAGTGTTTA CACATGGAGA GATGCCCAT GGTGGGCAGG 3180
CAGATGATGA AGTACTGGCA GATTTCGAGG CTGGGAAGGC TAGACTTCTT CAGCCCGAGG 3240
GCTGCCCTTC CAAACTCTAT CGGCTGATGC AGCGCTGCTG GGCCCTCAGC CCAAGGACC 3300
GGCCCTCCTT CAGTGAGATT GCCAGCGCCC TGGGAGACAG CACCGTGGAG AGCAAGCCGT 3360
GAGGAGGGAG CCCGCTCAGG ATGGCCTGGG CAGGGGAGGA CATCTCTAGA GGAAGCTCA 3420
CAGCATGATG GGCAAGATCC CTGTCTCTCT GGGCCCTGAG GTGCCCTAGT GCAACAGGCA 3480
TTGCTGAGGT CTGAGCAGGG CCTGGCCTTT CCTCTCTTTC CTCACCTCA TCCTTTGGGA 3540
GGCTGACTTG GACCAAACTT GGGCGACTAG GGCTTTGAGC TGGGCAGTTT CCCCTGGCAC 3600
CTCTTCTCTT ATCAGGAGCA GTGTGGGTGC CACAGGTAAC CCAATTTCTT GGCTTCAAC 3660
TTCTCCCTCT CACCGGGTCC AACTCTGCCA CTCATCTGCC AACTTTGCTT GGGGAGGGCT 3720
AGGCTTGGGA TGAGCTGGGT TTGTGGGGAG TTCCTTAATA TTCTCAAGTT CTGGGCACAC 3780
AGGGTTAATG AGTCTCTTGC CCACCTGGTCC ACTTGGGGGT CTAGACCAGG ATTATAGAGG 3840
ACACAGCAAG CAGGCTCTCC CCACTCTGGG CTGTGACACA CTGACCCAGA CCAACGCTCT 3900
CCCCACCTCT CTCTCTTTC CTACCTCTAA GTGCTTGCA GATGAAGGAG TTTTCAGGAG 3960
CTTTTGACAC TATATAAAC CCCTTTTGTG TATGACACAC GGGCGGCTTT TATATGTAAT 4020
TGACGCGTGG GGTGGGTGGG CATGGGAGGT AGGGGTGGGC CCTGGAGATG AGGAGGGTGG 4080
GCCATCTCTA CCCACACTT TTATGTTGTG CGTTTTTGTG TTGTTTGTGT TTTTGTGTTT 4140
TGTTTTTGTG TTACACTCG CTGCTCTCAA TAAATAAGCC TTTTTTA

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Seq ID NO: 534 Protein sequence
Protein Accession #: NP_002812

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40
45
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1' 11 21 31 41 51
MGAARGSPAR PRRLPLLVL LPLLLGGTQT AIVFIKQPS ODALQRRAL LRCEVEAPGP 60
VEVYWLDDGA PVQDTERRFA QGSSLSFAAV DRLQDSGTFQ CVARDDVTGE EARSANAFEN 120
IKWIEAGPVV LKHPASEAEI PQQTQVTLRC HIDGHPRTY QWFRDGTPLS DGQSNHTVSS 180
KERNLTLRPA GPEHSLGLYC CAHSAPGQAC SSQNFYLSIA DESFARVULA PQDVVVARYE 240
EAMFHCQFSA QPPPLQLWLF EDETPITNRS RPPHLRRATV FANGSLLLTQ VRPRNAGIYR 300
CIGQQQRGPP IILEATLHLA EIEDMPLFEP RVPTAGSEER VTCLPPKGLP EPSVMWEHAG 360
VRLPTHGRVY QKGHELVLAN IAESDAGVYT CHAANLAGQR RQDVNITVAT VPSWLKKPQD 420
SQLEEGKPGY LQCLTQATPK PTVVVYRNQM LISEDSRPEV FRNGTLRINS VEYVDGTWYR 480
CMSSTPAGSI EAQARVQVLE KLKFTPPPQP QOCMEFDKEA TVPCSATGRE KPTIKNERAD 540
GSSLPEWYTD NAGTLHFARV TRDDAGNYTC IASNGPQQQI RAHVQLTVAV FITFKVEPER 600
TTVYQGHNTAL LQCEAQGDPK PLIQWKGKDR ILDPKLGPR MHIFQNGSLV IHDVAPEDSG 660
RYTCLAGNSI NIKHTAPLY VVDKPVPEES EGPSPPPPYK MIQITGLSVG AAVAYIIAIVL 720
GLMFYCKKRC KAKRIKQKPE GEEPEMECLN GGPLQNGQPS AEIQEEVALT SLGSGPAATN 780
KRHSTSDGMH FPRSLQPIIT TLGKSEFGEV FLAKAQGLEE GVAETLVLVK SLQTKDEQQQ 840
LDFFRELEMF GKLNHANVVR LLGLCREAEP HYMVLEYVDL GDLKQFLRIS KSKDEKLKSQ 900
PLSTKQKVAL CTQVALGMEH LSNRNFVHKD LAARNCLVSA QRQVKVSALG LSKDVYNSEY 960
YHFRQAWVPL RWNSEALILE GDFSTKSDVM AFGVLMWEVF THGEMPHGGQ ADDEVILADLI 1020
AGKARLPQPE GCFSLYRLM QRCWALSPKD RPSFSEIASA LGDSTVDSKP

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Seq ID NO: 535 DNA sequence
Nucleic Acid Accession #: NM_013952
Coding sequence: 161..1357

55
60
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1 11 21 31 41 51
TTCAGAAGGA GGAGAGACAC CGGGCCCGAG GCACCCCTCG GGGCGGGCGG ACCCAAGCAG 60
TGAGGGCCCTG CAGCCGGCCG GCCAGGGCAG CGGCAGGCGC GGCCCGGACC TACGGGAGGA 120
AGCCCCGAGC CTKCGCGCGG CTGCGAGCGA CTCGCCGCGG ATGCCTCACA ACTCCATCAG 180
ATCTGGCCAT GGAGGGCTGA ACCAGCTGGG AGGGGCCCTT GTGAATGGCA GACCTCTGCC 240
GGAAGTGTCG CGCCAGCGCA TCGTAGACCT GGCCACCAAG GGTGAAGGC CCTGGACAT 300
CTCTCGCCAG CTCCGCTCA GCCATGGCTG CGTCAGCAAG ATCCTTGCCA GGTACTACGA 360
GACTGGCAGC ATCCGCGCTG GAGTGATAGG GGGCTCCAAG CCCAAGTGG CCACCCCCAA 420
GGTGGTGGAG AAGATTGGGG ACTACAAACG CCAGAACCCCT ACCATGTTTG CCTGGGAGAT 480
CCGAGACCGG CTCTGGCTG AGGGCGTCTG TGACAATGAC ACTGTGCCCA GTGTGAGCTC 540
CATTATAGA ATCATCCGGA CCAAAATGCA GCAACCATTC AACCTCCCTA TGGACAGCTG 600
CGTGCCACC AAGTCCTGA GTCCCGGACA CACGCTGATC CCCAGCTCAG CTGTAACTCC 660
CCCGGAGTCA CCCAGTCGG ATTCCCTGGG CTCACCTAC TCCATCAATG GGCTCCTGGG 720
CATCGCTCAG CCTGGCAGCG ACAAGAGGAA AATGGATGAC AGTGATCAGG ATAGCTGCCG 780
ACTAAGCATT GACTCACAGA GCAGCAGCAG CGGACCCCGA AAGCACCTTC GCACGGATGC 840
CTTCAGCCAG CACCACCTCG AGCCGCTCGA GTGCCCATTT GAGCGGCAGC ACTACCCAGA 900
GGCCTATGCC TCCCCAGACC ACACCAAAGG CGAGCAGGGC CTCTACCCGC TGGCCTTGTCT 960
CAACAGCACC CTGGAGCAGG GGAAGGCCAC CCGTACCCCT TCCAACACGC CACTGGGGCG 1020
CAACCTCTCG ACTCACCAGA CCTACCCCGT GGTGGCAGCT CCGCCCTTTT GGATCTGCAG 1080
CAAGTCGGCT CCGGGTCCCG GCCCTTCAAT GCCTTTCCCC ATGCTGCCTC CGTGTACGGG 1140
CAGTTCACGG GCCAGGCCCT CCTCTCAGGG CGAGAGATGG TGGGGCCAC GCTGCCCGGA 1200
TACCCACCCC ACATCCCCAC CAGCGGACAG GGCAGCTATG CCTCTCTGCT CATCGCAGGC 1260
ATGGTGGCAG GAAGTGAATA CTCTGGCAAT GCCTATGGCC ACACCCCTTA CTCTCTTAC 1320
AGCGAGGCTT GGGGCTTCCC CAACTCCAGC TTGCTGAGTT CCCCATATTA TTACAGTTCC 1380
ACATCAAGGC CGAGTGACCC GCCCAACACT GCCACGGCTT TTGACCATCT GTAGTTGCCA 1440
TGGGGACAGT G

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Seq ID NO: 536 Protein sequence
Protein Accession #: NP_039246

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5      1      11      21      31      41      51
      |      |      |      |      |      |
      MPHNSIRSGH GGLNQLGGAF VNGRPLPEVV RQRIVDLAHQ GVRPCDISRQ LRVSHGCVSK 60
      ILGRYYETGS IRPGVIGGSK PKVATPKVVE KIGDYKRQNP TMFAWEIRDR LLAEGVCDND 120
      TVPSVSSINR IIRTKVQPPF NLPMDSCVAT KSLSPGHTLI PSSAVTPPES PQSDSLGSTY 180
10     SINGLLGIAQ PGSDKRKMD SDQDSCRLSI DSQSSSSGPR KHLRTDAFSQ HHLEPLECPF 240
      ERQHYPEAYA SPSHTKGEQG LYPLPLLNST LDDGKATLTP SNTPLGRNLS THQTYPVVAA 300
      PPFWICKSA PGSRPSPMPF MLPPCTGSSR ARPSSQGERW WGPRCPDTHP TSPPADRAAM 360
      PPLFSQAMWQ EVNTLAMPMA TPPTPPTARP GASPTPAC
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15 Seq ID NO: 537 DNA sequence
Nucleic Acid Accession #: NM_003466.1
Coding sequence: 11..1363

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20     1      11      21      31      41      51
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      GAATTCGGCG ATGCCTCACA ACTCCATCAG ATCTGGCCAT GGAGGGCTGA ACCAGCTGGG 60
      AGGGGCTCTT GTGAATGGCA GACCTCTGCC GGAAGTGGTC CGCCAGCGCA TCGTAGACCT 120
      GGCCCAACAG GGTGTAAGGC CCTGCGACAT CTCTCGCCAG CTCCGCGTCA GCCATGGTTG 180
      CGTCAGCAAG ATCCTTGCCA GGTACTACGA GACTGGCAGC ATCCGGCCTG GAGTGATAGG 240
25     GGGCTCCAAG CCCAAGGTGG CCACCCCAAA GGTGGTGGAG AAGATTGGGG ACTACAAACG 300
      CCAGAACCCT ACCATGTTTG CCTGGGAGAT CCGAGACCGG CTCTGGGCTG AGGGCGTCTG 360
      TGACAATGAC ACTGTGCCCA GTGTGAGCTC CATTAAATAGA ATCATCCGGA CCAAAGTGCA 420
      GCAACCATTC AACCTCCCTA TGGACAGCTG CGTGGCCACC AAGTCCCTGA GTCCCGGACA 480
      CACGCTGATC CCCAGCTCAG CTGTAACTCC CCGGAGTCA CCCAGTGGG ATTCCCTGGG 540
30     CTCCACCTAC TCCATCAATG GGCTCCTGGG CATCGCTCAG CCTGGCAGCG ACAAGAGGAA 600
      AATGGATGAC AGTGATCAGG ATAGCTGCCG ACTAAGCATT GACTCACAGA GCAGCAGCAG 660
      CGGACCCCGA AAGCACCTTC GCACGGATGC CTTCAGCCAG CACCACCTCG AGCCGCTCGA 720
      GTGCCCATTT GAGCGGCAGC ACTACCCAGA GGCTATGCC TCCCCAGCC ACACCAAGG 780
      CGAGCAGGGC CTCTACCCGC TGCCCTTGCT CAACAGCACC CTGGACGACG GGAAGGCCAC 840
35     CCTGACCCCT TCCAACACGC CACTGGGCGG CAACCTCTCG ACTCACCAGA CCTACCCCGT 900
      GGTGGCAGAT CCTCACTCAC CCTTCGCCAT AAAGCAGGAA ACCCCGAGG TGTCCAGTTC 960
      TAGCTCCACC ACTTCTCTT TATCTAGCTC CGCTTTTGTG GATCTGCAGC AAGTCGGCTC 1020
      CGGGGTCCCG CCTTCAATG CCTTCCCCA TGCTGCCTCC GTGTACGGGC AGTTCAAGGG 1080
      CAGGCCCTC CTCTCAGGCG GAGAGATGGT GGGGCCACG CTGCCCGGAT ACCACCCCA 1140
40     CATCCCCACC AGCGGACAGG GCAGCTATGC CTCTCTGCC ATCGCAGGCA TGGTGGCAGG 1200
      AAGTGAATAC TCTGGCAATG CCTATGGCCA CACCCCTAC TCCTCTACA GCGAGGCTG 1260
45     GCGCTTCCCC AACTCCAGCT TGCTGAGTTC CCAATATTAT TACAGTTCCA CATCAAGGCC 1320
      GAGTGCACCG CCCACCACTG CCACGSCCTT TGACCATCTG TAGTTGAAGC TT
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45 Seq ID NO: 538 Protein sequence
Protein Accession #: NP_003457

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50     1      11      21      31      41      51
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      MPHNSIRSGH GGLNQLGGAF VNGRPLPEVV RQRIVDLAHQ GVRPCDISRQ LRVSHGCVSK 60
      ILGRYYETGS IRPGVIGGSK PKVATPKVVE KIGDYKRQNP TMFAWEIRDR LLAEGVCDND 120
      TVPSVSSINR IIRTKVQPPF NLPMDSCVAT KSLSPGHTLI PSSAVTPPES PQSDSLGSTY 180
      SINGLLGIAQ PGSDKRKMD SDQDSCRLSI DSQSSSSGPR KHLRTDAFSQ HHLEPLECPF 240
      ERQHYPEAYA SPSHTKGEQG LYPLPLLNST LDDGKATLTP SNTPLGRNLS THQTYPVVAD 300
55     PHSPPAIKYE TPEVSSSSST PSSLSSSAFL DLQVVGSGVP PFNAFPAAAS VYQQTQQAAL 360
      LSGREMGVPT LPGYPPHPT SQQGSYASSA IAGMVAGSEY SGNAYGHTFY SSYSEAWRFP 420
      NSSLLSSPYT YSSTRSPSAP PTTATAFDHL
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60 Seq ID NO: 539 DNA sequence
Nucleic Acid Accession #: NM_006799
Coding sequence: 19..963

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65     1      11      21      31      41      51
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      GCGCGGGGAG AGGAGGCCAT GGGCGCGGCG GGGGCGCTGC TGCTGGCGCT GCTGCTGGCT 60
      CGGGCTGGAC TCAGGAAGCC GGAGTCGAG GAGGCGGCGC CGTTATCAGG ACCATGCGGC 120
      CGACGGGTCA TACGTCGCG CATCGTGGGT GGAGAGGAGC CCGAACTCGG GCGTTGGCCG 180
      TGGCAGGGGA GCCTGCGCCT GTGGGATTCC CACGTATGCG GAGTGAGCCT GCTCAGCCAC 240
      CGCTGGGGAC TCACGGCGGC GCACCTGCTT GAAACCTATA GTGACCTTAG TGATCCCTCC 300
70     GGTGTGATGG TCCAGTTTGG CCAGCTGACT TCCATGCCAT CCTTCTGGAG CCTGCAGGCC 360
      TACTACACCC GTTACTTCGT ATCGAATATC TATCTGAGCC CTGCTACCT GGGGAATTCA 420
      CCCTATGACA TTGCCTTGGT GAAGCTGTCT GCACCTGTCA CCTACACTAA ACACATCCAG 480
      CCCATCTGTC TCCAGGCCTC CACATTGAG TTTGAGAAOC GGACAGACTG CTGGGTGACT 540
      GGCCTGGGGT ACATCAAAGA GATGAGGCA CTGCCATCTC CCCACACCTC CCAGGAAGTT 600
75     CAGGTGCGCA TCATAAACAA CTCTATGTGC AACCACCTCT TCCTCAAGTA CAGTTTCCGC 660
      AAGGACATCT TTGGAGACAT GGTTTGTGCT GGCAATGCC AAGGCGGGAA GGATGCCCTG 720
      TTGGTGACT CAGGTGGACC CTGGCCCTGT AACAGAATG GACTGTGGTA TCAGATTGGA 780
      GTGCTGAGCT GGGGAGTGGG CTGTGGTCGG CCATATGGCC CCGGTGTCTA CACCAATATC 840
      AGCCACCACT TTGAGTGGAT CCAGAAGCTG ATGGCCGAGA GTGGCATGTC CCAGCCAGAC 900
80     CCCTCTGGGC GCTACTCTT TTTCCCTCTT CTCTGGGCTC TCCCACTCCT GGGGCGGCTC 960
      TGAGCTTACC TGAGCCCATG CAGCCTGGGG CCACTGCCAA GTGAGGCCCT GGTCTCTCTC 1020
      TGTCTTGTTT GGTAAATAAAC ACATTCCAGT TGATGCCTTG CAGGCGATTC TTCAAAA
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Seq ID NO: 540 Protein sequence
Protein Accession #: NP_006790

1 11 21 31 41 51
5 MGARGALLLA LLLARAGLRK PESQEAAPLS GPCGRRVITS RIVGGEDAEL GRWPWQGSRL 60
LWDSHWCVGS LLSHRWALTA AHCFETYSDL SDPSGWMVQF GQLTSMPSFW SLQAYYTRYF 120
VSNIIYLSPRY LGNSPYDIAL VKLSAPVTTY KHIIQICLQA STFEFENRTD CWVTGWGYIK 180
EDEALFSPHT LQEVQVAIIN NSMCNHLFLK YSFRKDIFGD MVCAGNAQGG KDACFGDSGG 240
PLACNKNGLW YQIGVVSWGV GCGRPNRPGV YTNISHFEW IQKLMAQSGM SQPDPSWPLL 300
10 FFPLLWALPL LGPV

Seq ID NO: 541 DNA sequence
Nucleic Acid Accession #: NM_014344
Coding sequence: 131..1444

15 1 11 21 31 41 51
GCGGCCGCGA TGGGGCCGAA GCGCCCCGAA CCCCGGAGCC CACAACTGC CGGGCCCGCC 60
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CCGCGGAGAG ATGGGCAGGA GGATGCGGGG CGCCGCGGCC ACCGCGGGGC TCTGGCTGCT 180
20 GCGGCTGGGC TCGCTGCTGG CGCTGTGGGG AGGGCTCCTG CCGCCGCGGA CCGAGCTGCC 240
CGCTCCCGG CGGCCGGAAG ACCGACTCCC ACGGCGCGCG GCGGCGGAGC GCGGCCCGCG 300
GCCCGCGCCT CGCTTCCCTC TGCCCCCGCC CCTGGCGTGG GACGCGCGCG GCGGCTCCCT 360
GAAACTTTTC CGGGCGCTGC TCACCTTGGC GCGCGGCGCG GACGCGCGCG CCGGCGAGTC 420
CCGAGCGGAG CCCAGTGGGC ACGTGTGAGC CAGGCGAGCC GCGCGCGAGG AGAGCGCGCG 480
25 GGTCGACGGG GGCCTTCTCT GGAGCCGCGG CCTGGAGGAG CAGGTGCCCC CGGGCTTTTC 540
GGAGGCCCGG CGGCGCGGTG GGCTGGAGGC GGCTGCGGCG GCGCGGATGG TGGCCCTGGA 600
GCGCGGGGGT TCGGGGCGCA GCTCCAACCG ACTGGCCCGT TTTGCCGAGC GCACCCGCGC 660
CTGCGTGCBC GCGGAGCTGG ACCCGGAGCA GATTGAGGCG GAGGCGCTGT CTACTATCT 720
GGCGCGCTCG CTGGGCTTCC AGCGCCACGT GCGCGCGCTG GCATGCTCTC GGGTGGAGGC 780
30 TCGGGGCGCG CAGTGGGCGC AGGTGCAGGA GGAGCTGCGC GCTGCGCACT GGACCGAGGG 840
CAGCGTGGTG AGCTGTACAC GCTGGCTGCC CAACCTCACG GACGTGGTGG TGGCCGCGCC 900
CTGGGCTCGG GAGGACGGCC GTCTGCGCCC CCTCCGGGAT GCGCGGGGGT AGCTGGCCAA 960
CCTGACGCCG GCGGAGCTGG TGGACCTAGT ACAATGGACC GACTTAATCC TTTTGGACTA 1020
CCTGACGCCC AACTTCGACC GGCTCGTAAG CAACCTCTTC AGCCTGCAGT GGGACCCGCG 1080
35 GTGCATGCG CGTGCCACCA GCAACCTGCA CCGCGGTCCG GCGCGGGCGC TGGTCTTTCT 1140
GGACAATGAG CGGCGCTTGG TGCAAGGCTA CCGGGTAGCA GGCATGTGGG ACAAGTATAA 1200
CGAGCGCGCT TGGAGTCAAG TGTGCGTGT CCGGAGCGCG ACCGCGCGCG GCGTCTCTGA 1260
GCTGCAACCG GCGAGGCTGG CCGCGGCGCG GCTGCTGCGC CTCTACCGGC GCCAGAGGCC 1320
40 TCGCTTCCCC GAGCTGGCGG CCTTGCAGA CCCCCAGCT CAGCTGCTAC AGCGCGCCT 1380
CGACTTCTCT GCCAAGCACA TTTTGCAGTG TAAGGCCAAG TACGGCCCGC GGTCTGGGAC 1440
TIAGTGTGCA CGGGAGGAAA AGAGAGAGAT CTGGGCTGGG GGTATGGATG ATGGGGGGAA 1500
GGGCGGTGCG CTCTGCCACT GTGAGGAGCC AGCGCGCCAA CGCCCAACCG CAAAGGTGTC 1560
TAAAAACAG AGCTTTTTCG CCACTGCCCC CTTTCTTTCA ATCCACGCT GTTCTCTTC 1620
45 AAAGTTCTGG GAGGACGAAC TCACCGAGCG GAGAAAGTGA ACATTTCTCT CACCCAGCTT 1680
ATAAAGGAT TCTTTACTGT GCGAGCAGCG GGATTGGATC CGAAGAAACT GGCTACTGGG 1740
GTTTGGCCCC CGAGTGGCGG TCCCTGTGGG AGATGCACCC CATTCTTGGG CCCCCCTCAT 1800
TCCCTTTCCG AAAAAGGAAA ACTTGCCTTT GAGCGGTGTA GCTAATTTCT CAATTTTCTA 1860
CCAAACAGAG CGCTGGTGGC CCGGAGCAG GGCTGTGACA TTGGCTGGTG GAGCCCTTTC 1920
50 CTGTGTTCTC CCTTGTGTCC AGCGCCGCGA TGGTGAGATC ACTGTTCCTA GCAGGGGGAC 1980
GGCTGCGGAT AGGACAAAGA GAGCAGGACC TCCAGACTCT GGGGAGCCCT GCAGACCTTG 2040
ACAATTTGCC TGACTCATTC CTGACCTCTT GTCATTTTGG CCGTGAAGCT ACAAAATTCAG 2100
GGTCAGCTGT ATGCACTAAG TCAAATAATG AATTTCTTCC TCCCTCTGCG AACCGACCAA 2160
AATTTTGAAC ACGTGTGCTG TCACCAAGAG GAAAAAATAA TCAGTTTAT GCACCTTATT 2220
55 TGTGTTTGTG TTTTATTTT TATTAAAGAA AAATTTTATT TTACAGAATT TACCTTCTCT 2280
GTATATATGT GCATAAAGTG TGGTGTAAT ATACTAAACA AACTTATATT TCAATAAAG 2340
GGAGTTTAAA ATTTAAAAAA AAAAAA

Seq ID NO: 542 Protein sequence
Protein Accession #: NP_055159

60 1 11 21 31 41 51
MGRMRGAA TAGLWLLALG SLLALWGLL PPRTLPASR PPEDRLPRP ARSGGPAPAP 60
65 RFPLPPPLAW DARGGSLKTF RALLTLAAGA DGPPRQSRSE PRMHVSARQF RPRESAAVHG 120
GVFWSRGLLE QVPPGFSEAG AAALWLEAARG ARMVALERGG CGRSSNRLAR FADGTRACVR 180
YGINPEQIQG EALSYYLARL LGLQRHVPPL ALARVEARGA QMAVQVEELR AAHWTEGSVV 240
SLTRNLPLNT DVVVPAPWRS EDGRLRLPLRD AGGELANLSQ AELVDLVQWT DLILFDYLT 300
NFDRLVSNLF SLQWDPVPMQ RATSNLHRGP GGALVFLDNE AGLVHGYSVA GMWDKYNEPL 360
70 LQSVCFRER TARRVLELHR QDAAARLLR LYRRHEPRFP ELAALADPHA QLLQRLDPL 420
AKHILHCKAK YGRRSGT

Seq ID NO: 543 DNA sequence
Nucleic Acid Accession #: XM_007652.4
Coding sequence: 1..1290

75 1 11 21 31 41 51
ATGGCGCGCT CTGGCGGTG GAAGCGCCTC AAATCTATGC TAAGGAAGGA TGATGCGCGG 60
80 CTGTTTTTAA ATGACACCAAG CGCCTTTGAC TTCTCGGATG AGGCGGGGGA CGAGGGGCTT 120
TCTCGGTCA ACAAACTTGG AGTTGTGGTG GCCGATGAGC GTTCCGAAGC CCGGAAAGG 180
CCTGTTAAGC GGGCGCACCC GACCCTCCAG GCCGACGATG ATTCTTACT GGACCAAGAC 240
TTACCTTTGA CCAACAGTCA GCTGAGTTTG AAGGTGGACT CCTGTGACAA CTGCAGCAA 300
CAGAGAGAGA TACTGAAGCA GAGAAAGGTG AAAGCCAGGT TGACCAATGC TGCGTTCTG 360
TACTTGCTTT TCATGATTGG AGAACTGTGA GGTGGATACA TTGCAATAG CCTAGCAATC 420

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ATGACAGATG CACTTCATAT GTTAACTGAC CTAAGCGCCA TCATACTCAC CCTGCTTGCT 480
TTGTGGCTAT CATCAAAATC ACCAACCAAA AGATTCACTT TTGGATTTC TCGCTTAGAG 540
GTTTGTGTCAG CTATGATTAG TGTGCTGTTG GTGTATATAC TTATGGGATT CCTCTTATAT 600
GAAGCTGTGC AAAGAACATC CCATATGAAC TATGAAATAA ATGGAGATAT AATGCTCATC 660
ACCGCAGCTG TTGGAGTTGC AGTTAATGTA ATAATGGGGT TTCTGTTGAA CCAGTCTGGT 720
CACCGTCACT CCCATTCCCA CTCCTGCGCT TCAAAATCCC CTACCAGAGG TTCTGGGTGT 780
GAACGTAAAC ATGGGCAGGA TAGCCTGGCA GTGAGAGCTG CATTTGTACA TGCTTTGGGA 840
GATTGTGTAC AGAGTGTGGG TGTGCTAATA GCTGCATACA TCATACGATT CAAGCCAGAA 900
TACAAGATTG CTGATCCCAT CTGTACATAC GTATTTTCAT TACTTGTGGC TTTTACAACA 960
TTTGAATCA TATGGGATAC AGTAGTTATA ATACTAGAAG GTGTGCCAAG CCATTGGAAT 1020
GTAGACTATA TCAAAGAAGC CTTGATGAAA ATAGAAGATG TATATTCAGT CGAAGATTTA 1080
AATATCTGGT CTCTCACTTC AGGAAATCT ACTGCCATAG TTCACATACA GCTAATTCCT 1140
GGAAGTTCAT CTAATGGGA GGAAGTACAG TCCAAAGCAA ACCATTTATT ATTGAACACA 1200
TTTGGCATGT ATAGATGTAC TATTCAGCTT CAGAGTTACA GGCAAGAAGT GGACAGAAGT 1260
TGTGCAAAAT GTCAGAGTTC TAGTCCCTGA
  
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Seq ID NO: 544 Protein sequence
 Protein Accession #: XP_007652.1

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1 11 21 31 41 51
MAGSGAWKRL KSMRLKDDAP LFLNDTSAPD FSDEAGDEGL SRFNKLRRVVV ADDGSEAPER 60
PVNGAHTPIQ ADDDSLDDQD LPLTNSQLSL KVDSCDNCSK QREILKQRKV KARLTIAAVL 120
YLLFMIGELV GGYIANSLAI MTDALHMLTD LSAILLTLA LWLSSKSPTK RFTFGPHRLE 180
VLSAMISVLL VYILMGFLLY EAVQRTIHMN YEINGDIMLI TAAVGVAVNV IMGFLNKGSG 240
HRHSHSHSLP SNSPTRGSGC ERNHGQDSL A VRAAFVHALG DLVQSVGVLI AAYIIRFKPE 300
YKIADPICY VPSLLVAFTT FRIIWDTVVI ILEGVPSHLN VDYIKEALMK IEDVVSVEDE 360
NIWSLTSGKS TAIVHIQLIP GSSSKWEEVQ SKANHLNLT PGMRYCTIQL QSYRQEVDR 420
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Seq ID NO: 545 DNA sequence
 Nucleic Acid Accession #: AB037765.1
 Coding sequence: 1..2478

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ATGTTTTCOG GCTTCAATGT CTTTAGAGTT GGGATCTCTT TTGTCATAAT GTGCATTTTT 60
TACATGTCAA CAGTAAACTC TTTACCAGAA CTGAGTCCTC AGAAATATTT TAGTACATTG 120
CAACCAGGAA AAGCCTCTTT AGCTTATTTT TGTCAAGCTG ATTCCCAAG AACATCTGTA 180
TTTCTGAAG AACTGAATGA GGCTGTTAGA CCTCTGCAGG ACTATGGAAT TTCAGTTGCC 240
AAGGTTAATT GTGTCAAAGA AGAAATATCA AGATACTGTG GAAAAGAAAA GGATTGTATG 300
AAAGCATATT TATTCAGGGG CAACATATTG CTCAGAGAAT TCCCTACTGA CACCTTGTTT 360
GATGTGAAT CCATTGTGCG CCATGTTCTC TTTGCTCTTC TTTTGTAGTA AGTGAAATAT 420
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ATATTCTCAT ATGTAAGAGC CATTGGAATA CCAGAGCACA GAGCAGTCAT GGAAGCCGCT 540
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GACTTGACCC AGCAATGTAG AAGAACACTA ATGGAACAGC CATTGACTAC ACTGAACATT 720
CACCTGTTTA TTAAGACAAAT GAAAGCACCT CTGTTGACTG AAGTTGCTGA AGATCCTCAA 780
CAAGTTTCAA CTGTCCATCT CCAACTGGGC TTACCACTGG TTTTATTTGT TAGCCAACAG 840
GCTACTATG AAGCTGATAG AAGAACTGCA GAATGGGTTG CTTGGCGTCT TCTGGGAAAA 900
GCAGGAGTTC TACTCTGTT AAGGGACTCT TTGGAAGTGA ACATTCTCTA AGATGCTAAT 960
GTGGTCTTCA AAAGAGCAGA AGAGGGAGTT CCAGTGAAT TTTTGTGATT ACATGATGTT 1020
GATTTAATAA TATCTCATGT GGAATAATAT ATGCACATTG AGGAAATACA AGAAGATGAA 1080
GACAATGACA TGAAGAGTCC AGATATAGAT GTTCAGGATG ATGAAGTGGC AGAACTGTT 1140
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TTTAATGCAG CAGTGATGGC TTCTGACAGC ATAGTACTCT TCTATGCTGG TTGGCAAGCA 1260
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ACTATGCTTC TTAAGTAAT AAACCTGTGCA GATTGGTCTG ATGTATGTAC TAAGCAAAAT 1380
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CAAGTATTGG CATTTCTTTC AGACCAGGCT ATAATTGAAG AAAACCTTGT ATTGTGGCTG 2160
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CTTCTCTTC CAGCTTATGA TTTTCTAAGT ATGATAGATG CCGCAACATC TCAACGTGGC 2280
ACTAGGAAAG TTCCCAAGTG TATGAAGAA ACAGATGTGC AGGAGAATGA TAAGGAACAA 2340
CATGAAGATA AATCGGCAGT CAGAAAAGAA CCGATTGAAA CTCTGAGAAT AAAGCATTGG 2400
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Seq ID NO: 546 Protein sequence
 Protein Accession #: BAA92582.1

1 11 21 31 41 51

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	MFSGFNVFRV	GISFVIMCIP	YMPTVNSLPE	LSPQKYFSTL	QPGKASLAYF	CQADSPRTSV	60
	FLEELNEAVR	PLQDYGISVA	KVNCVKKEIS	RYCGKEKDL	KAYLFKGNIL	LREFFPTDTLF	120
	DVNAIVAHVL	FALLFSEVKY	ITNLEDLQNI	ENALKGKANI	IPSYVRAIGI	PEHRAVMEAA	180
5	FVYGTTYQFV	LTTEIALLES	IGSEDEVYAH	LYFFHCKLVL	DLTQCCRRLT	MEQPLTTLNI	240
	HLFIKTMKAP	LLTEVAEDPQ	QVSTVHLQIG	LPLVFIVSQQ	ATYEADRRTA	EMVAMRLLGK	300
	AGVLLLLRDS	LEVNIPOQAN	VVFKRAEEGV	PVEFLVLHDV	DLIISHVENN	MHIERIQEDE	360
	DNDMEGPDID	VQDDEVAETV	FRDRKRKLPL	ELTVELTEET	FNATVMASDS	IVLFYAGWQA	420
	VSMAPLQSYI	DVAVKLKGTS	TMLLRINCA	DWSDVCTKQN	VTEFPPIIKMY	KKGENPVSYA	480
10	GMLGTEDLLK	FIQLNRISYP	VNITSIQEAE	EYLSGELYKD	LILYSSVSVL	GLFSPMTKTA	540
	KEDFSEAGNY	LKGYVITGIY	SEEDVLLST	KYAASLPALL	LARHTEGKIE	SIPLASTHAQ	600
	DIVQIITDAL	LEMPFEITVE	NLPSYFRLQK	PLLILFSDGT	VNPQYKAIL	TLVKQKYLDS	660
	FTPCWNLKKN	TFVGRGILRA	YFDPLPPLPL	LVLVNLHSGG	QVFAPFSDQA	IIENLVLWL	720
	KKLEAGLENH	ITILPAQENK	PPLPAYDFLS	MIDAATSQRG	TRKVPKMKKE	TDVQENDKEQ	780
15	HEDKSAVRKE	PIETLRKIKHW	NRSNWFKEAE	KSFRDRKELG	CSKVN		

Seq ID NO: 547 DNA sequence
Nucleic Acid Accession #: NM_033102.1
Coding sequence: 1..1662

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25	CCTCTGCTGC	TGGAAGTGGG	GGTAGAGGAG	AAGTTTCATGA	CCATGGTGCT	GGGCATTGGT	180
	CCAGTGTCTG	GCCTGGTCTG	TGTCGCGCTC	CTAGGCTCAG	CCAGTGACCA	CTGGCGTGGA	240
	GCCTATGGCC	GCCTGGCGCC	CTTCATCTGG	GCACTGTCTG	TGGGCATCCT	CTGAGCCCTC	300
	TTTCTCATCC	CAAGGGCCGG	CTGGCTAGCA	GGGCTGTCTG	GCCCGGATCC	CAGGCCCTCTG	360
	GAGCTGGCAC	TGCTCATCTC	GGGCGTGGGG	CTGCTGGACT	TCTGTGGCCA	GGTGTGCTTC	420
30	ACTCCACTGG	AGGCCCTGCT	CTCTGACCTC	TTCCGGGACC	CGGACCACTG	TGCCCGAGCC	480
	TACTCTGTCT	ATGCTTTCAT	GATCAGTCTT	GGGGGCTGCC	TGGGCTACCT	CCTGCCCTGCC	540
	ATTGACTGGG	ACACAGTGGC	CCTGGCCCCC	TACCTGGGCA	CCCAGGAGGA	GTGCTCTTTT	600
	GGCCTGCTCA	CCCTCATCTT	CCTCACCTGC	GTAGCAGCCA	CACCTGTCTG	GGCTGAGGAG	660
35	GCAGGCTGGG	GCCCAACGGA	GCCAGCAGAA	GGGCTGTCTG	CCCCCTCCTT	GTGCCCCCAC	720
	TGCTGTCCAT	GCCGGGCCCC	CTTGGCTTTC	CGGAACCTGG	GCGCCCTGCT	TCCCCGGCTG	780
	CACCACTGCT	GCTGCGCGAT	GCCCCGACCC	CTGCGCCGGG	TCTTCTGTGG	TGAGCTGTGC	840
	AGCTGGATGG	CACCTCATGAC	CTTCACGCTG	TTTTACACGG	ATTTCGTGGG	CGAGGGGGCT	900
	TACCAAGGCG	TGCCAGAGC	TGAGCCGGGC	ACCGAGGCCC	GGAGACACTA	TGATGAAGGC	960
	GTTCGGATGG	GCAGCTGGG	GCTGTTCTCT	CAGTGGCCCA	TCTCCTGTGT	CTTCTCTCTG	1020
40	GTCTAGGACC	GGCTGGTGCA	GCGATTGCGC	ACTCGAGCAG	TCTATTGTGC	CAGTGTGGCA	1080
	GCTTTTCCCTG	TGCTGCGCGG	TGCCACATGC	CTGTCCCCCA	GTGTGGCCGT	GGTGACAGCT	1140
	TCAGCCGCCC	TACCGGGTTC	CACCTTCTCA	GCCCTGCAGA	TCTTGCCCTA	CACACTGGCC	1200
	TCCTCTTACC	ACCGGAGGAA	GCAGGTGTTC	CTGCCCAAT	ACCGAGGGGA	CACCTGGAGT	1260
45	GCTAGCAGTG	AGGACAGCCT	GATGACCAGC	TTCTCTGCCA	GCCCTAAGCC	TGGAGCTCCC	1320
	TTCCCTAATG	GACACGTGGG	TGCTGGAGGC	AGTGGCCTGC	TCCACCTCC	ACCGCGCTC	1380
	TGCGGGGCTC	CTGCTGTGTA	TGTCTCCGTA	CGTGTGGTGG	TGGGTGAGCC	CACCGAGGCC	1440
	AGGCTGGTTC	CGGGCCGGGG	CATCTGCTCT	GACCTGCGCA	TCCTGGATAG	TGCTTCTCTG	1500
	CTGTCCCAAG	TGCCCCCATC	CCTGTTTATG	GGCTCCATTG	TCCAGCTCAG	CCAGTCTGTC	1560
50	ACTGCTCTATA	TGCTGTCTGC	CGCAGGCTCT	GGTCTGGTGG	CCATTACTTT	TGCTACACAG	1620
	GTAGTATTGG	ACAAGAGCGA	CTTGGCCAAA	TACTCAGCGT	GA		

Seq ID NO: 548 Protein sequence
Protein Accession #: NP_149093.1

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	PVLGLVCPVL	LGSASHWRG	RYGRRRPFIV	ALSLGILLSL	FLIPRAGWLA	GLLCPDRPRL	120
	ELALLILGVG	LLDFCQVCF	TPLEALLSDL	FRDPDHCRQA	YSVYAFMISL	GGCLGYLLPA	180
60	IDWDTALAP	YLGTQEECLF	GLLTLIFLTC	VAATLLVAEE	AALGPTEPAE	GLSAPSLSPH	240
	CCPCRARLAF	RNLGALLPRL	HQLCCRMPT	LRRLFVAELC	SWMALMTFTL	PYTFVVGEG	300
	YQGVPRAEFG	TEARRHYDEG	VRMGSGLGLF	QCAISLVFSL	VMDRLVQRFG	TRAVYLASVA	360
	APFVAAGATC	LSHSVAVVTA	SAALTGFYFS	ALQILPYTLA	SLYHREKQVF	LPKYRGDTGG	420
	ASSESLMTS	FLPGPKPGAP	PFNGHVGAGG	SGLLPPPPAL	CGASACDVSV	RVVVGEPTFA	480
65	RVPVGRGICL	DLAILDSAPL	LSQVAPSLFM	GSIVQLSQSV	TAYMVSAAGL	GLVAIYPATQ	540
	VVFDKSDLAK	YSA					

Seq ID NO: 549 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1389

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75	GTGTCAACT	CGATTATAGG	ATCTGGTATA	ATAGGATTGC	CTTATTCAT	GAAGCAAGCT	180
	GGGTTTCCCT	TGGGAATATT	GCTTTTATTC	TGGGTTTCAT	ATGTTACGGA	CTTTTCCCTT	240
	GTTTATTGTA	TAAAGGAGG	GGCCCTCTCT	GGAACAGATA	CCTACCACTC	TTTGTGCAAT	300
	AAAACCTTTC	GCTTTCAGG	GTATCTGCTC	CTCTCTGTTT	TTCACTTTT	GTATCCTTTT	360
	ATAGCATATG	TAAATACAA	TATAATAGCT	GGAGATACCT	TGAGCAAAAT	TTTTCAAGAA	420
80	ATCCCAAGGAG	TGATCTCTGA	AAACGTGTTT	ATTGGTCCGC	ACTTCATTAT	TGGACTTTCC	480
	ACAGTTACCT	TTACTCTGCT	TTATCTCTGG	TACCGAAATA	TAGCAAAAGT	TGGAAAGGTC	540
	TCCCTCATCT	CTACAGGTTT	AACAACTCTG	ATTCTTGAA	TTGTAATGGC	AAGGGCAATT	600
	TTACTGGGCT	CACACATACC	AAAAACAGAA	GACGCTTGGG	TATTTGCAAA	GCCCAATGCC	660
	ATTCAAGCGG	TGGGGTTTAT	GTCTTTTGCA	TTTATTTGCC	ACCATAACTC	CTTCTTAGTT	720

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TACAGTCTCT TAGAAGAACC CACAGTAGCT AAGTGGTCCC GCCTTATCCA TATGTCCATC 780
GTGATTCTCT TATTATCTCT TATATTCTTT GCTACATGTG GATACCTGAC ATTTACTGGC 840
TTCACCCAGG GGGACTTATT TGAATAATTAC TGCAGAAATG ATGACCTGGT AACATTGGGA 900
AGATTCTGTT ATGGTGTCTAC GTGCATTTTG ACATACCCCTA TGGAACTGCTT TGTGACAAGA 960
GAGGTAATTG CCAATGTGTT TTTGGTGGG AATCTTTCAT CGGTTTTCCA CATTGTTGTA 1020
ACAGTGATGG TCATCACTGT AGCCACGCTT GTGTCAATTGC TGATTGATTG CCTCGGGATA 1080
GTTCTAGAAC TCAATGGTGT GCTCTGTGCA ACTCCCTCA TTTTATCAT TCATCAGGCC 1140
TGTTATCTGA AACTGTCTGA AGAACCAAGG ACACACTCCG ATAAGATTAT GTCTTGTGTC 1200
ATGCTTCCCA TTGGTGTCTGT GGTGATGGTT TTTGGATTCT TCATGGCTAT TACAATACT 1260
CAAGACTGCA CCCATGGGCA GGAAATGTTT TACTGCTTTC CTGACAATT CTCTCTACA 1320
AATACCTCAG AGTCTCATGT TCAGCAGACA ACACAACTTT CTACTTTAAA TATTAGTATC 1380
TTTCAATGA

Seq ID NO: 550 Protein sequence
Protein Accession #: Eos sequence

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| | | | |
MGYQRQEPVI PPQRDLDDRE TLVSEHEYKE KTCQSAALFN VVNSIIGSGI IGLPYSMKQA 60
GPPLGILLFL WVSYYTDFSL VLLIKGGALS GTDTYQSLVN KTFGFPYLL LSVLQFLYPP 120
IAMISYIIIA GTTLTKVFOR IPGVDFENVF IGRHFIIGLS TVTFTLPLSL YRNIAKLKGV 180
SLISTGLTTL ILGIUMARAI SLGPHIPKTE DAWVFAKPA IQAVGVMSFA FICHNSFLV 240
YSSLEPTVA KWSRLIHMSI VISVFICIFF ATCGYLTFTG FTQGDLEFNY CRNDLVTFG 300
RCYGVTVIL TYPMCEPFR EVIANVFFGG NLSSVFHIVV TVMVIATVATL VSLLDCLGI 360
VLELNGVLCA TPLIFIIPSA CYLKLSEPR THSDKIMSCV MLPIGAVMV FGFVMAITNT 420
QDCTHGQEMF YCFPNFSLT NTSESHVQQT TQLSTLNI SI FQ

Seq ID NO: 551 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1284

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ATGGGCTACC AGAGGCAGGA GCCTGTCTATC CCGCCGCGAGA GAGGATGCCC TTATTCAATG 60
AAGCAAGCTG GGTTCCTCTT GGAATATTG CTTTATTCTT GGGTTTCATA TGTTACAGAC 120
TTTCCCTCTG TTTTATTGAT AAAAGGAGGG GCCCTCTCTG GAACAGATAC CTACCACTCT 180
TTGGTCAATA AAACCTTCGG CTTTCCAGGG TATCTGCTCC TCTCTGTTCT TCAGTTTCTG 240
TATCTCTTTA TAGCAATGAT AAGTTACAAT ATAATAGCTG GAGATACTTT GAGCAAGATT 300
TTTCAAGAAA TCCAGGAGT TGATCCTGAA AACGTGTTTA TTGGTCCGCA CTTCAATTAT 360
GGACTTTCCA CAGTTACCTT TACTCTGCCT TTATCCTTGT ACCGAAATAT AGCAAAGCTT 420
GGAAAGGTCT CCCTCATCTC TACAGGTTTA ACAACTCTGA TTCTTGAAT TGTAATGGCA 480
AGGGCAATTT CACTGGGTCC ACACATACCA AAAACAGAAG ACGCTGGGT ATTTGCAAGG 540
CCCAATGCCA TTCAAGCGGT CGGGGTATG TCTTTTGCAT TTATTGCGCA CCATAACTCC 600
TTCTTAGTTT ACAGTCTCTT AGAAGAACC ACAGTAGCTA AGTGGTCCCG CCTTATCCAT 660
ATGTCCATCG TGATTCTGT ATTATCTGT ATATTCTTTG CTACATGTGG ATACTTGACA 720
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ACATTGGA GAATTGTTA TGGTGTCACT GTCATTTTGA CATACCTAT GGAATGCTT 840
GTGACAAGAG AGTAATATGC CAATGTGTTT TTTGGTGGGA ATCTTTTCACT GGTTTTCCAC 900
ATTGTTGTAA CAGTGATGT CATCACTGTA GCCACGCTG TGTCAATGCT GATTGATTGC 960
CTCGGGATAG TTCTAGAAT CAATGGTGTG CTCTGTGCAA CTCCTTCAT TTTTATCATT 1020
CCATCAGCCT GTTATCTGAA ACTGTCTGAA GAACCAAGGA CACACTCGA TAAGATTATG 1080
TCTGTGCTCA TGCTTCCAT TGGTGTCTGT GTGATGTTT TTGATTGCT CATGGCTATT 1140
ACAAATACCT CCAACTGCAC CCATGGGCGA GAAATGTTCT ACTGCTTTC TGACAATTTC 1200
TCTCTCACA ATACCTCAGA GTCTCATGT CAGCAGACAA CACAACCTTC TACTTTAAAT 1260
ATTAGTATCT TTCAACTCGA GTAA

Seq ID NO: 552 Protein sequence
Protein Accession #: Eos sequence

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MGYQRQEPVI PPQRGLPYSM KQAGFPLGIL LFWVSYVTD FSLVLLIKG ALSGTDYQS 60
LVNKTGFPFG YLLSLVQLFL YPFIAMISYN ILAGDTLSKV FQRIPGVDPE NVFGRHFII 120
GLSTVFTTLP LSLYRNIAKL GKVSLISTGL TTLILGIVMA RAISLGHPI KTEDAWVFAK 180
FNAIQAVGVMS SFAPICHNS FLVYSSLEEP TVAKWSRLIH MSIVISVFIC IFFATCGYLT 240
FTGFTQGLDF ENYCRNDLV TFGRFCYGVV VILTYPMCEP VTREVIANVF FGNLSSVPH 300
IVVTVMVITV ATLVSLLDIC LGIVLELNGV LCATPLIPII PSACYLKLSE EPRTHSDKIM 360
SCVMLPIGAV VMVFPVMAI TNTQDCTHGQ EMFYCFPNDF SLNTSSESHV QQTQLSTLNI 420
ISIFQLE

Seq ID NO: 553 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1203

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ATGGGCTACC AGAGGCAGGA GCCTGTCTATC CCGCCGCGAGT TTTCCCTTGT TTTATTGATA 60
AAAGGAGGGG CCTCTCTGG AACAGATACC TACAGTCTT TGGTCAATAA AACTTCGGC 120
TTTCCAGGGT ATCTGCTCCT CTCTGTTCTT CAGTTTCTGT ATCCTTTTAT AGCAATGATA 180
AGTTACAATA TAATAGCTGG AGATACTTTG AGCAAAGTTT TTCAAAGAAT CCCAGGAGTT 240
GATCTGAAA ACGTGTATTAT TGGTCGCCAC TTCAATTATG GACTTTCCAC AGTTACCTTT 300
ACTCTGCTT TATCCTTGTA CGAAATATA GCAAAGCTTG GAAAGGTCTC CCTCATCTCT 360
ACAGGTTTAA CAACTCTGAT TCTTGAATT GTAATGGCAA GGGCAATTTC ACTGGGTCCA 420
CACATACCAA AAACAGAAGA CGCTTGGGTA TTTGCAAGC CCAATGCCAT TCAAGCGGTC 480

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GGGGTTATGT CTTTTCATT TATTTGCCAC CATAACTCCT TCTTAGTTTA CAGTICTCTA 540
GAAGAACCCA CAGTAGCTAA GTGGTCCCGC CTATCCATA TGTCCATCGT GATTTCTGTA 600
TTTATCTGTA TATCTTTTGC TACATGTGGA TACTTGACAT TTACTGGCTT CACCCAAGGG 660
GACTTATTTG AAAATTACTG CAGAAATGAT GACCTGGTAA CATTGGGAAG ATTTTGTAT 720
GGTGTCACTG TCAITTTGAC ATACCCATG GAATGCTTTG TGACAAGAGA GGTAAATTGCC 780
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GGTGTCTGTG TGTATGGTTT TGGATTGCTC ATGGCTATTA CAAATACTCA AGACTGCACC 1080
CATGGGCAGG AAATGTTCTA CTGCTTTCCT GACAATTTCT CTCTCACAAA TACCTCAGAG 1140
TCTCATGTTC AGCAGACAAC ACAACTTTCT ACTTTAAATA TTAGTATCTT TCAACTCGAG 1200
TAA

Seq ID NO: 554 Protein sequence
Protein Accession #: Eos sequence

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MGYQRQEPVI PPQFSLVLLI KGGALSGTDT YQSLVNKTFG FPGYLLLSVL QFLYPFIAMI 60
SYNIIAGDTL SKVQRIPGV DPENVFIGRH FIIGLSTVTF TLPLSLYRNI AKLGKVSLS 120
TGLTTLILGI VMARAIISLP HIPKTEDAWV FAKPNAIQAV GVMSFAPICH HNSFLVYSSL 180
EPTVAKWSR LIHMSIVISV FICIFFATCG YLFTGTGFTG DLFENYCRND DLVTFGRFCY 240
GVTVILTYPM ECFVTREIVIA NVFPGNLSS VFHIVVTVMV ITVATLVSLI IDCLGIVLEL 300
NGVLCAPLI FIIPSACYLK LSEEPRTSD KIMSCVMLPI GAVVMVFGFV MAITNTQDCT 360
HQEMFYCFP DNPSLTNTSE SHVQQTQLS TLNISIFQLE

Seq ID NO: 555 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1140

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	TTGGGGGAG	CCGTGGTGAC	CGTGTGGGAC	AGCGATGCAC	ACACCACGGA	GAAGCCCACC	840
	GATGCCCTAG	GAGAGCTGGA	CTTCAAGGGG	GCCGGCCGCA	AGCACAGCAA	TTTCTCCGG	900
	CTCTCTGACC	GAACGGATCC	AGCTGCAGTT	TATAGTCTGG	TCACACGCAC	ATGGGGCTTC	960
	CGTGGCCCCA	ACCTGGTGGT	GTCACTGCTG	GGGGGATCGG	GGGGCCCCGT	CCTCCAGACC	1020
	TGGCTGCAGG	ACCTGCTGCG	TCGTGGGCTG	GTGCGGGCTG	CCCAGAGCAC	AGGAGCCTGG	1080
	ATTGTCACTG	GGGGTCTGCA	CACGGGCATC	GGCCGGCATG	TGTTGTGTGC	TGTACGGGAC	1140
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	GTCTGTCTCC	TCTGTATTGA	TGGTGATGAG	AAGATGTTGA	CGCAATAGA	GAACGCCACC	1500
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	TTGAGAGACC	TGTTTGTGAA	GGCCCTTGTG	AAGGCTGTGT	GGAGCTCGGA	GGCCTCAGCG	1800
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	CTGCTGAATG	ACCGGCTGGA	GTTCGTGCGC	TGCTCATTTT	CCCACGGCTT	CAGCCTGGGC	1980
	CACCTTCTGA	CCCCGATGCG	CCTGGGCCAA	CTCTACAGCG	CGGCGCCCTC	CAACTCGCTC	2040
	ATCCGCAACC	TGTTTGTGAA	GGCCCTTGTG	AAGGCTGTGT	GGAGCTCGGA	GGCCTCAGCG	2100
25	GGGGGAGCTG	CGGAGCTCCG	GCCCCCTGAC	GTGGGGCATG	TGCTGAGGAT	GCTGTGGGGG	2160
	AAGATGTGGG	CGCGAGGTA	CCCCCTCGGG	GGCGCCTGGG	ACCTTCACCC	AGGCCAGGGC	2220
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	ACTTGCTCCG	AGCTGGCCAT	GCAAGCTGAC	GCCCGTGCTT	TCTTTGCCCA	GGATGGGGTA	2640
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40	TTCTGTCTGC	TTTCTCGCGG	GGTGCTGCTC	GTGGATTTCG	AGCCGGCGCC	GCCCGGCTCC	3060
	CTGGAGCTGC	TGCTCTATTT	CTGGGCTTTC	ACGCTGCTGT	GCGAGGAAGT	GCGCCAGGGC	3120
	CTGAGCGGAG	GCGGGGGCAG	CCTCGCCAGC	GGGGGGCCCC	GGCCTGGCCA	TGCTCTACTG	3180
	AGCCAGGCGC	TGCGCCTCTA	CCTCGCCAGC	AGCTGGAACC	AGTGGCAAGT	AGTGGCTCTC	3240
	ACCTGCTTCC	TCTTGGGCGT	GGGCTGCGCG	CTGACCCCGG	GTTTGTACCA	CCTGGGCGCG	3300
45	ACTGTCTCTT	GCATGCACTT	CATGGTTTTT	ACGGTGCGGC	TGCTTCACAT	CTTCACGGTC	3360
	AACAAACAGC	TGGGGCCCAA	GATCGTCATC	GTGAGCAAGA	TGATGAAGGA	CGTGTCTCTT	3420
	TTCTCTTTCT	TCTCTGGCGT	GTGGCTGGTA	GCCTATGGCG	TGGCCACGGA	GGGGCTCTGT	3480
	AGGCCAAGGG	ACAGTGACTT	CCCAAGTATC	CTGGCGCGCG	TCTTCTACCG	TCCCTACCTG	3540
	CAGATCTTCT	TGACACAGAA	CCAGGAGGAC	ATGAGCTGGG	CCCTCATGGA	GCACAGCAAC	3600
50	TGCTCGTGGG	AGCCCGGCTT	CTGGGCACAC	CCTCCTGGGG	CCCAGGCGGG	CACCTGCGTC	3660
	TCCAGTATG	CCAACCTGGT	GGTGGTCTGT	CTCCTCGTCA	TCTTCTGCTT	CGTGGCCAAC	3720
	ATCCTGTCTG	TCAACTGTCT	CATTGCCATG	TTCACTTACA	CATTGCGCAA	AGTACAGGGC	3780
	AACAGCGATC	TCTACTGGAA	GGCGCAGCGT	TACCGGCTCA	TCCGGGAATT	CCACTCTCGG	3840
	CCCGGCTTCT	CCCGGCTTCT	TATGCTATC	TCCCACTTGC	GCCTCTGCTT	CAGGCAATTG	3900
55	TGCAGGCGAC	CCCGGAGCCC	CCAGCGTCC	TCCCGGGCCC	TCGAGCATTT	CCGGGTTTAC	3960
	CTTTCTAAGG	AAGCCGAGCG	GAGCTGCTA	ACGTGGGAAT	CGGTGCATAA	GGAGAAGTTT	4020
	CTGCTGGCAC	CGCTAGGGAG	CAAGCGGGAG	AGCGACTCCG	AGCGTCTGAA	GCGCACGCTC	4080
	CAGAAAGTGG	ACTTGGCACT	GAAACAGCTG	GGACACATCC	GCGAGTACGA	ACAGCGCCTG	4140
	AAAGTGTCTG	AGCGGGAGGT	CCAGCAGTGT	AGCCGCTGCC	TGGGGTGGGT	GGCCGAGGGC	4200
60	CTGAGCGCTC	CTGCTTGTCT	GCCCCCAGGT	GGGCCGCCAC	CCCTGACCTT	GCTTGGGTCC	4260
	AAAGACTGAG	CCCTGCTGGC	GGACTTCAAG	GAGAAGCCCC	CACAGGGGAT	TTTGTCTCTA	4320
	GAGTAAGGCT	CATCTGGGCA	TGGGCCCGCG	CACCTGGTGG	CCTTGTCTCT	GAGGTGAGCC	4380
	CCATGTCCAT	CTGGGCCACT	GTCAGGACCA	CCTTTGGGAG	TGTATCTCTT	ACAAACACCA	4440
	GCATGCCCGG	CTCCTCCAGC	AACCAGTCCC	AGCCTGGGAG	GATCAAGGCC	TGGATCCCGG	4500
65	GCCGTATATC	ATCTGGAGGC	TGCAGGGTCC	TTGGGGTAAC	AGGGACCACA	GACCCCTCAC	4560
	CACCTACAGA	TTCTCTACAC	TGGGGAAATA	AAGCCATTTC	AGAGGAAAAA	AAAAAAAAAA	4620
	AAAAAAAAAA	AAAAAAAAAA	A				

Seq ID NO: 558 Protein sequence
Protein Accession #: XP_057188.1

70	1	11	21	31	41	51	
	MEDAFGAADV	TVWDSDAHTT	EKPTDAYGEL	DFTGAGRKHS	NFLRLSDRTD	PAAVYSLVTR	60
75	THGFRAPNLV	VSVLGGSGGP	VLQTLWQDLL	RRGLVRAAQS	TGANIVTGGL	HTGIGREHGV	120
	AVRDHQMST	GGTKVVMGV	APNGVVRNRD	TLINPKGSFP	ARYRWRGDPE	DGVQFPLDYN	180
	YSAFFLVDDG	THGCLGGENR	FRLRLSEYIS	QKRTGVGGTG	IDIPVLLLLI	DGDEKMLTRI	240
	ENATQAQLPC	LLVAVSGGAA	DCLAETLEDT	LAPGSGGARQ	GEARDIRRF	FPKGDLEVLQ	300
	AQVERIMTRK	ELLTVYSSED	GSEEFETIVL	KALVKACGSS	EASAYLDELRL	LAVAWNVRDI	360
80	AQSELFRGDI	QWRSFHLEAS	LMDALLNDRP	EFVRLILSHG	LSLGHFLTEM	RLAQLYSAAP	420
	SNSLIRNLDD	QASHSAGTKA	PALKGGAAEL	RPPDVGHVLR	MLLGKMCAPR	YPSGGAWDPH	480
	PGQGFESMY	LLSDKATSP	SLDAGLGQAP	WSDLLWALL	LNRAQMAMFY	WEMGSNAVSS	540
	ALGACILLRV	MARLEPDAEE	AARRKDLAFK	PEGMGVDLFG	ECYRSSEVRA	ARLLLRRCPL	600
	WGDAATCLQA	MQADARAFFA	QDGVQSLLTQ	KMWGDMASTT	PIWALVLAFF	CPPLIYTRLI	660
	TFRKSEEBPT	REELEFDMDS	VINGEGPVGT	ADPAEKTPLG	VPRQSGRPGC	CGGRCGGRRC	720

5 LRRWFHFWGA PVTIFMGNV SYLLFLLLF S RVLLVDFQPA PPGSLELLLY FWAFTLLCEE 780
 LRQGLSGGG SLASGGPGPG HASLSQRLRL YLADSWNQCD LVALTCFLLG VGCRLTPGLY 840
 HLGRVLCID FMVPTVRLHL IPTVKNQLGP KIVIVSKMMK DVFFLFPLG VNLVAYGVAT 900
 EGLLRPRDS PPSILRRVYF RPYLQIFGQI PQEDMDVALM EHSNCSSEPG FWAHPGGAQA 960
 GTCVSQYANW LVVILLVIFL LVANILLVNL LIAMFSYTFG KVOGNSDLW KAQRYLIRE 1020
 FHSRPAAPP PIVISHLRL RLQLCRRPRS PQSSPALEH FRVYLSKEAE RKLLTWESVH 1080
 KENFLLARAR DKRESDSERL KRTSQKVDLA LKQLGHIREY EQRLKVLERE VQCSRVLGW 1140
 VAEALSRSAL LPPGGPPPPD LFGSKD

10 Seq ID NO: 559 DNA sequence
 Nucleic Acid Accession #: NM_006853.1
 Coding sequence: 26..874

15 1 11 21 31 41 51
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 ATCGGGGAGA GGTCTCACAG CAGCCAAGGA ACCTGGGGCC CGCTCCTCCC CCTCCAGGC 120
 CATGAGGATT CTGCAGTTAA TCCTGCTTGC TCTGGCAACA GGGCTGTAG GGGAGAGAC 180
 CAGGATCATC AAGGGGTTCG AGTGCAAGCC TCACTCCAG CCCTGGCAGG CAGCCCTGTT 240
 20 CGAGAAGACG CGGTACTCT GTGGGCGAC GTCATCGCC CCAGATGCG TCCTGACAGC 300
 AGCCCATGCG CTCAAGCCCC GCTACATAGT TCACCTGGGG CAGCACAACC TCCAGAAGGA 360
 GGAGGGCTGT GAGCAGACCC GGCAGGCCAC TGAGTCCTTC CCCACCCCG GCTTCAACAA 420
 CAGCCTCCCC AACAAAGACC ACCGCAATGA CATCATGCTG GTGAAGATGG CATGCCAGT 480
 CTCATCACC TGGGCTGTGC GACCCCTCAC CCTCTCCTCA CGCTGTGTCA CTGCTGGCAC 540
 25 CAGCTGCTC ATTTCCGGCT GGGGCGACG GTCCAGCCCC CAGTTACGCC TGCCTCACAC 600
 CTTGCGATGC GCCAACATCA CCATCATGTA GCACCAAGAG TGTGAGAAGC CCTACCCCGG 660
 CAACATCACA GACACCATG TGTGTGCCAG CGTGCAAGAA GGGGGCAAGG ACTCTGCGA 720
 GGGTGAGTCT GGGGGCCCTC TGGTCTGTAA CCAAGTCTCT CAAGGCATTA TCTCTGGGG 780
 CCAGGATCCG TGTGCGATCA CCCGAAAGCC TGGTGTCTAC ACGAAAGTCT GCAAAATAGT 840
 30 GGATGTGATC CAGGAGACGA TGAAGAACA TTAGACTGGA CCCACCCACC ACAGCCCATC 900
 ACCCTCCATT TCCACTTGGT GTTTGGTTCC TGTCTACTCT GTTAATAAGA AACCTAAGC 960
 CAAGACCCCT TAGCAACATT CTTTGGGCTT CCTGGACTAC AGGAGATGCT GTCACTTAAT 1020
 AATCAACCTG GGGTTCGAAA TCAGTGAGAC CTGGATTCAA ATTCTGCCCT GAAATATTGT 1080
 35 GACTCTGGGA ATGACAACAC CTGGTTTGT CTCTGTTGTA TCCCCAGCCC CAAAGACAGC 1140
 TCCTGGCCAT ATATCAAGGT TTCAATAAAT ATTTGCTAAA TGAGTG

Seq ID NO: 560 Protein sequence
 Protein Accession #: NP_006844.1

40 1 11 21 31 41 51
 | | | | |
 MRILQLILLA LATGLVGSET RIIGFCECKP HSQFWQAALF EKTRLLCGAT LIAPRWLLTA 60
 ARCLKPRYIV HLGQBNLQKE EGCEQTRTAT ESFPHPGPMN SLPNKDHRND IMLVKMASPV 120
 45 SITWAVRPLT LSSRCVTAGT SCLISGWGST SSPQLRLPHT LRCANITIE HQKCNENYPG 180
 NITDTMVCAS VQEGSKDSQ GDSGGPLVCN QSLQGIISWG QDPCAITRKP GVTYTKVCKV 240
 DWIQTMMQN

50 Seq ID NO: 561 DNA sequence
 Nucleic Acid Accession #: AY046419.1
 Coding sequence: 1..1743

55 1 11 21 31 41 51
 | | | | |
 ATGTTTACCT TCCTGTCATC TGTCACTGCT GCTGTCAAGT GCCTCCTGGT GGGTTATGAA 60
 CTGGGATCA TCTCTGGGGC TCTTCTTCTAG ATCAAAACCT TATTAGCCCT GAGCTGCCAT 120
 GAGCAGGAAA TGGTGTGAG CTCCCTCGTC ATTGGAGCCC TCCTTGCCCTC ACTCACCGGA 180
 GGGGTCTTGA TAGACAGATA TGGAGAAGG ACAGCAATCA TCTTGTATC CTGCTGCTT 240
 GGACTCGGAA GCTTAGTCTT GATCCTCAGT TTATCTTACA CGGTTCTTAT AGTGGGACGC 300
 60 ATTGCCATAG GGGTTTCCAT CTCCCTCTCT TCCATTGCCA CTGTGTGTTA CATCGCAGAG 360
 ATTGCTCCTC AACACAGAAG AGGCCTTCTT GTGTCACTGA ATGAGCTGAT GATTGTCTATC 420
 GGCATTCTTT CTGCTATAT TTCAAATTAC GCATTGGCCA ATGTTTTCCTA TGGCTGGAAG 480
 TACATGTTTG GTCTGTGAT TCCCTTGGGA GTTTTGCAAG CAATTGCAAT GTATTTTCTT 540
 CCTCCAAGCC CTGCGTTTCT GGTGATGAAA GGACAAGAGG GAGCTGCTAG CAAGGTTCTT 600
 65 GGAAGGTAA GAGCACTCTC AGATACAACT GAGGAATCA CTGTGATCAA ATCTCCTCGT 660
 AAGATGAAT ATCAGTACAG TTTTGGGAT CTGTTTCTGT CAAAAGACAA CATGGGACCC 720
 CGAATAATGA TAGGACTAAC ACTAGTATTT TTTGTACAAA TCACTGGCCA ACCAAACATA 780
 TTGTTCTATG CATCAACTGT TTTGAAGTCA GTTGGATTTC AAAGCAATGA GGCAGCTAGC 840
 CTGCGCTCCA CTGGGGTTGG AGTCGTCAAG GTCAATAGCA CCATCCCTGC CACTCTCTT 900
 70 GTAGACCATG TCGGCAGCAA AACATTCTCT TGCAATGGCT CCTCTGTGAT GGCAGCTTCG 960
 TTGGTGACCA TGGGCATGCT AAATCTCAAC ATCCACATGA ACTTCAACCA TATCTGCAGA 1020
 AGCCACAATT CTATCAACCA GTCCCTGGAT GAGTCTGTGA TTTATGGACC AGGAAACCTG 1080
 TCAACCAACA ACAATACTCT CAGAGACCAC TTCAAGGGA TTTCTTCCA TAGCAGAAGC 1140
 TCACTCATCG CCTGAGAAA TGATGTGGAT AAGAGAGGGG AGACGACCTC AGCATCCTTG 1200
 75 TAAATGCTG GATTAGCCA CACTGAATAC CAGATAGTCA CAGACCTCGG GGACGTCCCA 1260
 GCTTTTGA AATGGCTGTC CTTAGCCAGC TTGCTGTGTT ATGTTGCTGC TTTTCAATT 1320
 GGTCTAGGAC CAATGCCCTG GCTGGTGCTC AGCGAGATCT TTCCTGGTGG GATCAGAGGA 1380
 CGAGCCATGG CTTAATCTTC TAGCATGAAC TGGGGCATCA ATCTCCTCAT CTGCTGACA 1440
 TTTTGTACTG TAAGTATCT TATTGGCCTG CCAATGGGTG GCTTTATATA TACAATCATG 1500
 80 AGTCTAGCAT CCTGCTTTT TGTGTATATG TTTATACCTG AGACAAAGGG ATGCTCTTG 1560
 GAACAAATAT CAATGGAGCT AGCAAAAGTG AACTATGTGA AAAACAACAT TGTTTTATG 1620
 AGTCATCACC AAGAAGAATT AGTGCCAAAA CAGCCTCAAA AAAGAAAACC CCAGGAGCAG 1680
 CTCTGGAGT GTAACAAGCT GTGTGGTAGG GGCCAATCCA GGCAGCTTTC TCCAGAGACC 1740
 TAA

Seq ID NO: 562 Protein sequence
Protein Accession #: AAL02327.1

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5      1      11      21      31      41      51
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MFTFLSSVTA AVSGLLVGYE LGIISGALLQ IKTLLALSCH EQEMVSSSLV IGALLASLTG 60
GVLIDRYGRR TAILSSSCLL GLGSLVLILS LSYTVLIVGR IAIGVSISLS SIATCVYIAE 120
IAPQHRRLGL VSLNELMIVI GILSAYISNY AFANVPHGWK YMFGLVPLG VLQAIAMYFL 180
PPSPRFLVMK QOGEAASKVL GRLRALSDTT EELTVIKSSL KDEYQSFWD LFRSKDNMRT 240
10 RIMIGLTLVP FVQITGQFNI LFYASTVLKS VGFQSNAAAS LASTGVGVVK VISTIPATLL 300
VDHVGSKTFL CIGSSVMAAS LVTMGIVNLN IHMNFTHICR SHNSINQSLD ESVIYGPNGN 360
STNNNTLRDH PKGISSHSRS SLMPLRNDVD KRGETTSASL LNAGLSHTEY QIVTDPGDVP 420
AFLKWLSLAS LLVYVAAFSI GLGPMPLVL SEIFPGGIRG RAMALTSSMN WGINLLISLT 480
15 PLTVTDLIGL PWVCFIYTIM SLASLLFVVM FIPETKGC SL EQISMELAKV NYVKNNICFM 540
SHHQEELVPK QPQKRKPQEQ LLECNKLCGR GQSRQLSPET

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Seq ID NO: 563 DNA sequence
Nucleic Acid Accession #: XM_059466.1
Coding sequence: 1..894

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20      1      11      21      31      41      51
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ATGGAGCGCG GGGCGCTCGT CACGGCGCTC AGCCTCGGCC TCAGCCTGTG CTCCTGGGG 60
CTGCTCGTCA CGGCCATCTT CACCGACACC TGGTACGAGA CCGACCCCGC GCGCCACAG 120
25 GAGAGCTGCG AGCGCAGCCG CGCGGCGGCC GACCCCGCGG ACCAGAAGAA CCGCCTGATG 180
CGCTGTGCGC ACCTCGCGCT GCGGGACTCG CCGCGCTGG GCGCGCGGCT GCTCCCGGGC 240
GGCCCGGGGG GCGCGGACCC CGAGTCTCGG CGCTCGCTCC TGGGCTCGG CCGGCTGGAC 300
GCGGAGTGGC GCGCGGCCCT CTTCGCCACC TACTCGGGCC TCTGAGGAA GTGCTACTTC 360
CTGGGCATCG ACCGGGACAT CGACACCCCT ATCCTGAAAG GTATTGCGCA GCGATGCAGC 420
30 GCCATCAAGT ACCACTTTTC TCAGCCCATC CGCTTGGGAA ACATTCCITT TAATTAAACC 480
AAGACCATAC AGCAAGATGA GTGGCACCTG CTTCATTTAA GAAGATCAC TGCTGGCTTC 540
CTCGGCATGG CGGTAGCGGT CCTTCTCTGC GGTCTGATGG TGGCCACAGT CAGTTCTTTC 600
TGGGAGGAGA GCTTGACCCA GCACGTGGCT GGACTCTGT TCCTCATGAC AGGGATATT 660
35 TGCACCATTT CCTCTGTAC TTATGCGGCC AGTATCTCGT ATGATTGAA CCGGCTCCCA 720
AAGCTAATTT ATAGCCTGCC TGCTGATGTG GAACATGGTT ACAGCTGGTC CATCTTTTGC 780
GCTCTGGTGA GTTTAGGCTT TATTGTGGCA GCTGGAGGTC TCTGCATCGC TTATCGCTTT 840
ATTAGCCGGA CCAAGATTGC ACAGCTAAAG TCTGGCAGAG ACTCCACGCT ATGA

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Seq ID NO: 564 Protein sequence
Protein Accession #: XP_059466.1

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40      1      11      21      31      41      51
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MEPRALVTAL SLGLSLCSLG LLVTAIFTDH WYETDPRRHK ESCERSRAGA DPPDQKNRLM 60
45 PLSHLPLRDS PPLGRRLLPF GPGRADPESW RSLGLGLGLD ABCCRPLFAT YSGLWRKCYF 120
LGIDRDIDTL ILKGLAQRCT AIKYHFSQPI RLRNIPFNLT KTIQDDEWHL LHLRRITAGF 180
LGMVAVALLC GCIVATVSFF WEESLTQHVA GLLFLMTGIF CTISLCTYAA SISYDLNRLP 240
KLIYSLPADV EHGYSWSIFC AWCSLGFIVA AGGLCIAYPF ISRTKIAQLK SGRDSTV

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Seq ID NO: 565 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..3315

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55      1      11      21      31      41      51
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ATGTCCTTTC GGGCAGCCAG GCTCAGCATG AGGAACAGAA GGAATGACAC TCTGGACAGC 60
ACCGGAGACC TGACTCCAG CGCGTCTCGG AGCAGAGACT TGTCTTACAG TGAAGAGCAG 120
TTGGTGAATT TTATTCAAGC AAATTTTAAG AAACGAGAAT GTGCTTCTT TACCAAAGAT 180
TCCAAGGCCA CGGAGAAATG GTGCAAGTGT GGCTATGCCC AGAGCCAGCA CATGGAAGGC 240
60 ACCCAGATCA ACCAAAGTGA GAAATGGAAC TACAAGAAAC ACACCAAGGA ATTTCTTACC 300
GAGCCTTTTG GGGATATTCA GTTTGAGACA CTGGGGAAGA AAGGGAAGTA TATACGTCGT 360
TCTTGCGACA CGGACGCGGA AATCCTTTAC GAGCTGCTGA CCCAGCACTG GCACCTGAAA 420
ACACCAACCC TGGTCATTTT TGTGACCGGG GCGGCCAAGA ACTTCGCCCT GAAGCCGCGC 480
ATGCGCAAGA TCTTCAGCGG GCTCATCTAC ATGCGCGAGT CCAAGGTGTC TTGGATTCTC 540
65 ACGGGAGGCA CCCATTATGG CCTGATGAAG TACATCGGGG AGGTGGTGAG AGATAACACC 600
ATCAGCAGGA GTTCAGAGGA GAATATTGTG GCCATTGGCA TAGCAGCTTG GGGCATGGTC 660
TCCAACCGGG ACACCCCTAT CAGGAATTGC GATGCTGAGG GCTATTTTTT AGCCCATGAC 720
CTTATGGATG ACTTCACAAG AGATCCACTG TATATCTTGG ACAACAACCA CACACATTTG 780
CTGCTCGTGG ACAATGGCTG TCATGGACAT CCCACTGTGG AAGCAAAGCT CCGGAATCAG 840
70 CTAGAGAAGT ATATCTCTGA GCGCACTATT CAAGATTCCA ACTATGGTGG CAAGATCCCC 900
ATTGTGTGTT TTGCCCAAGG AGGTGGAAAA GAGACTTTGA AAGCCATCAA TACCTCCATC 960
AAAAATAAAA TTCTCTGTGT GGTGGTGGAA GGCTCGGGCC AGATCGCTGA TGTGATCGCT 1020
AGCCTGGTGG AGGTGGAGGA TGCCCTGACA TCTTCTGCCG TCAAGGAGAA GCTGGTGGCG 1080
75 TTTTACCCCC GCACGGRGTC CCGCTGCCT GAGGAGGAGA CTGAGAGTTG GATCAATGG 1140
CTCAAGAAAA TTCTCGAATG TTCTCACCTA TTAACAGTTA TTAATATGGA AGAAGCTGGG 1200
GATGAATATG TGAGCAATGC CATCTCTTAC GCTCTATACA AAGCCTTCAG CACCACTGAG 1260
CAAGACAAGG ATAACCTGAA TGGGCAGCTG AAGCTTCTGC TGGAGTGGAA CCAGCTGGAC 1320
TTAGCCAATG ATGAGATTTT CACCAATGAC CGCGATGGG AGTCTGCTGA CCTTCAAGAA 1380
GTCATGTTTA CGGCTCTCAT AAAGGACAGA CCCAAGTTTG TCCGCTCTT TCTGGAGAAT 1440
80 GGCTTGAACC TACGGAAGTT TCTCACCAT GATGTCTCA CTGAACCTT CTCCAACCAC 1500
TTCAGCACGC TTGTGTACCG GAATCTGCAG ATCGCAAGA ATTCTATAA TGATGCCCTC 1560
CTCACGTTTG TCTGAAACT GGTGCGAAC TTCCGAAGAG GCTTCCGGAA GGAAGACAGA 1620
AATGGCCGGG ACAGAGTGGG CATAGAAGCT CACGAGTGT CTCCTATTAC TCGGCACCCC 1680
CTGCAAGCTC TCTTCATCTG GGCCATTCTT CAGAATAAGA AGGAACCTC CAAAGTCATT 1740

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5
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15
20
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TGGGAGCAGA CCAGGGGCTG CACTCTGGCA GCCCTGGGAG CCAGCAAGCT TCTGAAGACT 1800
CTGGCCAAAG TGAAGAACGA CATCAATGCT GCTGGGGAGT CCGAGGAGCT GGCTAATGAG 1860
TACGAGACCC GGGCTGTGTA GCTGTTCAC T GAGTGTACG GCAGCGATGA AGACTTGGCA 1920
GAACAGCTGC TGGTCTATTC CTGTGAAGCT TGGGGTGGAA GCAACTGTCT GGAGCTGGCG 1980
GTGGAGGCCA CAGACCCAGCA TTTCATCGCC CAGCGTGGGG TCCAGAATTT TCTTCTAAG 2040
CAATGGTATG GAGAGATTTC CCGAGACACC AAGAACTGGA AGATTATCTT GTGTCTGTTT 2100
ATTATACCTT TGGTGGGCTG TGGCTTTGTA TCATTTAGGA AGAAACCTGT CGACAAGCAC 2160
AAGAAGCTGC TTTGGTACTA TGTGGCGTTC TTCACCTCCC CCTTCGTGGT CTTCTCCTGG 2220
AATGTGGTCT TCTACATCGC CTTCCTCTCT CTGTTTGCTT ACGTGCTGCT CATGGATTTC 2280
CATTCGGTGC CACACCCCCC CGAGCTGGTC CTGTACTCGC TGGTCTTTGT CTTCTCTGCT 2340
GATGAAGTGA GACAGTGGTA CGTAAATGGG GTGAATTATT TTAGTGACCT GTGGAATGTG 2400
ATGGACACGC TGGGCTTTT TTAATCTATA GCAGGAATTG TATTTCGGCT CCACTCTTCT 2460
AATAAAGCT CTTTGTATTC TGGACGAGTC ATTTCTGTC TGGACTACAT TATTTTCACT 2520
CTAAGATTGA TCCACATTTT TACTGTAAGC AGAACTTAG GACCAAGAT TATAATGCTG 2580
CAGAGGATGC TGATCGATGT GTTCTTCTTC CTGTTCTCTT TTGCGGTGTG GATGGTGGCC 2640
TTTGGCGTGG CCAGGCAAGG GATCCTTAGG CAGAATGAGC AGCGCTGGAG GTGGATATTC 2700
CGTTCCGTCA TCTACGAGCC CTACCTGGCC ATGTTCCGCC AGGTGCCAGC TGACGTGGAT 2760
GGTACACCGT TTGAGATTGC CCACTGCACC TTCACCTGGA ATGAGTCCAA TACTCTGTGT 2820
GTGGAGCTGG ATGAGCACAA CCTGCCCGG TTCCCGAGT GGATCACCAT CCCCCTGGTG 2880
TGCACTTACA TGTATCCAC CAACATCCTG CTGGTCAACC TGCTGGTCCG CATGTTTGGC 2940
TACACGGTGG GCACCGTCCA GGAGAACAAT GACCAGGCTT GGAAGTTCCT GAGGTACTTC 3000
CTGGTGACAG AGTACTGAGC CCGCCTCAAT ATCCCTTCCC CTTTCACTGT CTTCCGTCTAC 3060
TTCTACATGT TGTGAAGAA GTGCTTCAAG TGTGTCTGCA AGGAGAAAAA CATGGAGTCT 3120
TCTGTCTGCT GTTTCAAAA TGAAGACAAT GAGACTCTGG CATGGGAGGG TGTATGAAG 3180
GAAACTACC TTGTCAAGAT CAACACAAA GCCAACGACA CCTCAGAGGA AATGAGGCAT 3240
CGATTAGAC AACTGGATAC AAAGCTTAAT GATCTCAAGG GTCTTCTGAA AGAGATTGCT 3300
AATAAAATCA AATGA

Seq ID NO: 566 Protein sequence
Protein Accession #: Eos sequence

35
40
45
50

1 11 21 31 41 51
MSFRAARLSM RNRNDTLDS TRTLYSASR STDLVSESD LVNFIQANFK KRECVFTKD 60
SKATENVCKC GYAQSQHMEG TQINQSEKWN YKHTKEFPT DAFGDIQPET LGKKGKYIRL 120
SCDTDAELLY ELLTQHWHLK TPNLVISVTG GAKNFALKPR MRKIFSRLLY IAQSKGAWIL 180
TGGTHYGLMK YIGEVVRDNT ISRSEENIV AIGLAAGMNV SNRDLTIRNC DAEGYPLAQY 240
LMDDFTRDEL YILDNNHTHL LLVDNGCHGH PTVEAKLRNQ LEKYISERTI QDSNYGGKIP 300
IVCFAQGGGK ETLKAINTSI KXKIPCVVVE GSGQIADVIA SLVEVEDALT SSAVKEKLVR 360
FLPRTVSRPL EETESWIKW LKEILECSHL LTVIKMEBAG DEIVSNAISY ALYKAFSTSE 420
QDKDNWNGQL KLLLENQQLD LANDEIFTND RRWESADLQE VMFTALIKDR PKFVRLFLEN 480
GLNLRLFLTH DVLTELFNSH FSTLVYRNLO IAKNSYNDAL LTFVWKLIVN FRRGFRKEDR 540
NGRDEMDEL HDVSPITRHP LQALFIWAIL QMKELSKVI WEQTRGCTLA ALGASKLLKT 600
LAKVKNDINA AGESEBELANE YETRAVELFT ECVSSDEDLA BQLLVYSCEA WGGSNCLELA 660
VEATDQHFIA QPGVQNFSLK QWYGEISRDT KNWKIILCLF IIPLVGCGFV SFRKKPVDKH 720
KLLLWYVAF TSPFPVVFVS NVVFYIAPLL LFAYVLMDP HSPVPPPELV LYSLVFVLFC 780
DEVQRWYVNG VNYFTDLWNV MDTLGLFYFI AGIVFRLHSS NKSSLYSGRV IFCLDYIIFT 840
LRLIHFTVS RNYGPKIIML QRLIDVFFF LFLFAVMVA FGVARQGILR QNEQRWRWIF 900
RSVIYEPYLA MFGQVPSDVD GTTYDFAHCT FTGNESKPLC VELDEHNLPR FPEMITIPLV 960
CIYMLSTNLL LVNLLVAMPF YTVGTVQENN DQVWKPQRYF LVQBYCSRLN IPFPFIVPAY 1020
PYMVVKCFK CCKCKKNMES SVCCFKNEDN ETLAWEGVMK ENYLVKINTK ANDTSEEMRH 1080
RFRQLDTKLN DLKGLLKEIA NKIK

Seq ID NO: 567 DNA sequence
Nucleic Acid Accession #: NM_006911.1
Coding sequence: 1..558

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65
70

1 11 21 31 41 51
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CGCGCGCAGA TTGCCATTG CCGCATGAGC ACCTGGAGCA AAAGTCTCTT GAGCCAGGAA 180
GATGCTCCTC AGACACCTAG ACCAGTGGCA GAAATTGTAC CATCCTTCAT CAACAAGAT 240
ACAGAAACTA TAATTATCAT GTTGAATTC ATTGCTAATT TGCCACCGGA GCTGAAGGCA 300
GCCCTATCTG AGAGGCAACC ATCATTACCA GAGCTACAGC AGTATGTACC TGCATTAAAG 360
GATTCCAAATC TTAGCTTTGA AGAATTTAAG AAACCTATTC GCAATAGGCA AAGTGAAGCC 420
GCAGACAGCA ATCCTTCAGA ATTAAATAC TTAGGCTTGG ATACTCATTC TCAAAAAAAG 480
AGACGACCCT ACGTGGCACT GTTTGAGAAA TGTTCCTTAA TTGGTTGTAC CAAAAGGTCT 540
CTTGCTAAAT ATTGCTGA

Seq ID NO: 568 Protein sequence
Protein Accession #: NP_008842.1

75
80

1 11 21 31 41 51
MPRLFLFHLL EFCLLLNQFS RAVAANKWDD VIKLCGRLEV RAQIAICGMS TWSKRSLSQE 60
DAPQTPRPVA EIVPSFINKD TETIIMLEF IANLPPELKA ALSERQPSLP ELQQYVPALK 120
DSNLSFEZFK KLIRNRQSEA ADSNPSELKY IGLDTHSQKK RRPYVALFEK CCLIGCTKRS 180
LAKYC

Seq ID NO: 569 DNA sequence
Nucleic Acid Accession #: XM_036453.1

Coding sequence: 1..3978

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75 Seq ID NO: 570 Protein sequence
Protein Accession #: XP_036453.1

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Seq ID NO: 572 Protein sequence
 Protein Accession #: AAC27076.1

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Seq ID NO: 573 DNA sequence
 Nucleic Acid Accession #: Eos sequence
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Seq ID NO: 574 Protein sequence
 Protein Accession #: Eos sequence

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Seq ID NO: 575 DNA sequence
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1 11 21 31 41 51
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AGGCAGGTC TCAGCTGAGT GAACTCAAG ACTGGTTGT GGGTCGAAGC AATGCCAGG 840
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Seq ID NO: 576 Protein sequence
Protein Accession #: NP_001864.1

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RELLIFLAQY LCNEYQKQNE TIVNLIHSTR IHIMPSLND GFEKAASQPG ELKDWVGRS 180
NAQSIDLNRN FPDLDRIVYV NEKEGGPNNH LLKMKKIYD QNTKLAPETK AVIHWIMDIP 240
FVLSANLHGG DLVANYPYDE TRSGSAHEYS SSPDDAIFQS LARAYSSFPN AMSDPNRPCC 300
RKNDSSSFV DGTNGGAWY SVPGGMQDFN YLSSNCFEIT VELSCFKFP BETLKYWED 360
NKNSLISYLE QIHRTGVKGFV RDLQGNPIAN ATISVEGIDH DVTSKDG DY WRLLIPGNYK 420
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Seq ID NO: 577 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..933

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GACTGTCCCG ATGGCAGCGA TGAAGAGAAC TGACACAGCA ACCCTCTGCT TTGCTCCACC 240
GCCCGCTACC ACTGCAAGAA CGGCTCTGT ATTGACAAGA GCTTCATCTG CGATGGACAG 300
AATAACTGTC AAGACAACAG TGATGAGGAA AGCTGTGAAA GTTCTCAAGA ACCCGGCACT 360
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ATCATCGGCA GCTCCGTCTT TTTGTGCTG GTGGTGGCCC TGCTGGCACT GGTCTTGAC 480
CACCAGCGGA AGCGGAACAA CCTCATGACG CTGCCGCTGC ACCGCTGCA GCACCTGTG 540
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AATAATGGCA TCCAGTATGT GGCCAGCCAG GCGGAGCAGA ATGCGTCGGA AGTAGGCTCC 660
CCACCTCTCT ACTCGAGGC CTGTCTGGAC CAGAGGCGCT CGTGTATGA CCTTCTCCA 720
CGCCCTTACT CTTCTGACAC GGAATCTCTG AACCAAGCCG ACCTGCCCCC CTACCGCTCC 780
CGGTCGGGGA GTGCCAACAG TGCCAGCTCC CAGGCAGCCA GCAGCTCTCT GAGCGTGGAA 840
GACACCCAGC ACAGCCCGGG GCAGCTGGC CCCAGGAGG GCATGCTGA GCCCAGGAC 900

TCTGAGCCCA GCCAGGGCAC TGAAGAAGTA TAA

Seq ID NO: 578 Protein sequence
Protein Accession #: Eos sequence

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DCPDGSDEN	CTANPLLCST	ARYHCKNGLC	IDKSFICDGQ	NNCQDNDEE	SCSSSQEPGS	120
GQVFVTSNQ	LVYVPSITYA	IIGSSVIFVL	VVALLALVLH	HQRKRNLMT	LPVHRLQHPV	180
LLSRLVLDH	PHHCNVYV	NNIQYVASQ	AEQNASEVGS	PPSYSEALLD	QRPWYDLPP	240
PPYSSDTESL	NQADLPYRS	RSGSANSASS	QAASSLLSVE	DTSHSPGQPG	PQEGTAEPRD	300
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Seq ID NO: 579 DNA sequence
Nucleic Acid Accession #: AF179274.1
Coding sequence: 1..1125

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TTCCCTACCT	CCTTAAGTGA	CTGCCAAACG	CCCACCGGCT	GGAATTGCTC	TGTTATGAT	180
GACAGAGAAA	ATGATCTCTT	CCTCTGTGAC	ACCAACACCT	GTAATTTGA	TGGGGAATGT	240
TTAAGAATTG	GAGACACTGT	GACTTGCGTC	TGTCAGTTCA	AGTGCAACAA	TGACTATGTG	300
CCTGTGTGTG	GCTCCAATGG	GGAGAGCTAC	CAGAATGAGT	GTTACCTGCG	ACAGGCTGCA	360
TGCAACACGC	AGAGTGAGAT	ACTTGTGGTG	TCAGAAGGAT	CATGTGCCAC	AGATGCAGGA	420
TCAGGATCTG	GAGATGGAGT	CCATGAAGGC	TCTGGAGAAA	CTAGTCAAAA	GGAGACATCC	480
ACCTGTGATA	TTTGCCAGTT	TGGTGACAGAA	TGTGACGAG	ATGCCGAGGA	TGCTGGTGT	540
TGTTGTAATA	TTGACTGTTC	TCAAAACCAAC	TTCAATCCCC	TCTGCGCTTC	TGATGGGAAA	600
TCATTGATA	ATGCATGCCA	AATCAAAGAA	GCATCGTGTC	AGAAACAGGA	AAAAATTGAA	660
GTCAATGCTT	TGGTTCGATG	TCAAGATAAC	ACAATACAA	CTACTAAGTC	TGAAGATGGG	720
CATTATGCAG	GAACAGATTA	TGCAGAGAA	GCTAACAAAT	TAGAAGAAAG	TGCCAGAGAA	780
CACCCATAC	CTTGCCCGGA	ACATTACAA	GGCTTCTGCA	TGCATGGGAA	GTGTGAGCAT	840
TCTATCAATA	TGCAGGAGCC	ATCTTGAGG	TGTGATGCTG	GTATACTGGA	ACAACACTGT	900
GAAAAAAGG	ACTACAGTGT	TCTATACGTT	GTTCCCGGTC	CTGTACGATT	TCAATATGTC	960
TTAATCGCAG	CTGTGATTGG	AACAATTCAG	ATTGCTGTCA	TCTGTGTGGT	GGTCTCTGTC	1020
ATCACAAGGA	AATGCCCCAG	AAGCAACAGA	ATTACAGAC	AGAAGCAAAA	TACAGGGCAC	1080
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Seq ID NO: 580 Protein sequence
Protein Accession #: NP_057276.2

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CKQQSILV	SEGSACATDAG	SGSGDVHVB	SGETSQKETS	TCDICQFGAE	CDEDAEDVWC	180
VCMIDCSQTN	FNPLCASDOK	SYDNACQIKE	ASCQKQEKIE	VMSLGRQCDN	TTTTTKSEGD	240
HYARTDYAEN	ANKLESARE	HHIPCEHYN	GFCMHGKCEH	SINMQEPSCR	CDAGYTQGH	300
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Seq ID NO: 581 DNA sequence
Nucleic Acid Accession #: S78203.1
Coding sequence: 1..2190

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AACATCCAC	TGAGCATTGC	CTTCATTGTG	GTGAATGAAT	TCTGCGAGCG	CTTTTCCTAT	180
TATGGAATGA	AAGCTGTGCT	GATCCTGTAT	TTCTGTATT	TCCTGCACCT	GAATGAAGAT	240
ACCTCCACAT	CTATATACCA	TGCCTTCAGC	AGCCTCTGTT	ATTTTACTCC	CATCCTGGGA	300
GCAGCCATTG	CTGACTCGTG	GTTGGGAAAA	TTCAAGACAA	TCATCTATCT	CTCCTTGGTG	360
TATGTGCTTG	GCCATGTGAT	CAAGTCTCTG	GGTGCCCTTAC	CAATACTGGG	AGGACAAGTG	420
GTACACACAG	TCCTATCATT	GATCGGCTTG	AGTCTAATAG	CTTTGGGGAC	AGGAGGCATC	480
AAACCTCTGT	TGGCAGCTTT	TGGTGAGAC	CAGTTTGAAG	AAAAACATGC	AGAGGAACGG	540
ACTAGATACT	TCTCAGTCTT	CTACCTGTCC	ATCAATGCAG	GGAGCTTGAT	TTCTACATTT	600
ATCACACCCA	TGCTGAGAGG	AGATGTGCAA	TGTTTGGAG	AAGACTGCTA	TGCATTGGCT	660
TTTGGAGTTC	CAGGACTGCT	CATGGTAATT	GCACTTGTG	TGTTTGCAAT	GGGAAGCAAA	720
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TTTGCTATTT	CCAATCGTTT	CAAGAACCCT	TCTGGAGACA	TTCCAAAGCG	ACAGCACTGG	840
CTAGACTGGG	CAGCTGAGAA	ATATCCAAAG	CAGCTCATT	TGGATGTAAA	GGCACTGACC	900
AGGGTACTAT	TCCTTTATAT	CCCATTCGCC	ATGTTCTGGG	CTCTTTTGA	TCAGCAGGGT	960
TCAGATGGA	CTTTGCAAGC	CATCAGGATG	AATAGGAATT	TGGGGTTTTT	TGTGCTTCAG	1020
COGACACAGA	TGCAGGTCTT	AAATCCCTTT	CTGGTCTCTA	TCTTCATCCC	GTGTGTTGAC	1080
TTTGTCATTT	ATCGTCTGGT	CTCCAAGTGT	GGAAATTAAC	TCTCATCACT	TAGGAAAAATG	1140
GCTGTGGTA	TGATCCTAGC	GTGCCTGGCA	TTTGCACTTG	CGGAGCTGTG	AGAGATAAAA	1200
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CTGGCAGAT	ATGAGGTGAA	GGTGACAGTG	GTGGGAAATG	AAAAACAATC	TCTGTTGATA	1320
GAGTCCATCA	AATCCTTTCA	GAAAACACCA	CACATTTCCA	AACTGCACCT	GAAAACAAAA	1380
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Seq ID NO: 582 Protein sequence
Protein Accession #: AAB34388.1

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YVLGHVIKSL GALPILGGQV VHTVLSLIGL SLIALGTGGI KPCVAAFSGD QFEKHAEEER 180
TRYFSVYFLS INAGSLISTF ITPMLRGDVQ CFGEDCYALA FGVPGLLMVI ALVVFAMGSK 240
IYNKPPEPGR IVAGVFRKIW FAISNRFKNR SGDIPKRQHW LDWAAEKYPK QLIMDVKALT 300
RVLYFLYIPLE MFWALLDQOG SRWTLQAIRM NRNLGFFVLQ PDQMQLVLPF LVLIFIPLED 360
FVIYRLVSKG GINFFSLRKM AVGMILACLA FAVAAAVEIK INEMAPQSG PQEVFLQVLN 420
LADDEVKVTV VGNENNSILLI ESIKSFQKTP HYSKHLKTK SQDFHPLKY HNLSTYEH 480
VQENWYSLV IRENGNMISS MMVKDTESKT TNGMTTVRFV NTLHKDVNIS LSTDTSLNVG 540
EDYGVSAYRT VQREYPAVH CRTEDKNFSL NLGLLDFGAA YLFVITNNTN QQLQANKIED 600
IPANKMSIAN QLPLYALVTA GEVMSVTGL EFSYSQAPSS MKSVLQAAWL LTIAGVNIIV 660
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Seq ID NO: 583 DNA sequence
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Coding sequence: 184..1263

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Seq ID NO: 584 Protein sequence
Protein Accession #: NP_116031.1

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Seq ID NO: 585 DNA sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..1479

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Seq ID NO: 586 Protein sequence
 Protein Accession #: Eos sequence

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 CIACGVNLNS SRQSRIVGGE SALPGAWPQ VSLHVQNVHV CGGSIITPEW IVTAACHVEK 300
 PLNNFWHMTA FAGILRQSFY FYGAGYQVEK VISHPNYDSK TKNNDIALMK LQKPLTFNDL 360
 50 VKFVCLPNPG MMLQPEQLCW ISGWGATEEK GKTSEVLNAA KVLLIETQRC NSRYVYDNL 420
 TPAMICAGFL QGNVDSQGD SGGPLVTSKN NIWNLIGDTS WSGSCAKAYR PGVYGNVMVF 480
 TDWYRQMA DG

Seq ID NO: 587 DNA sequence
 Nucleic Acid Accession #: NM_005656.1
 Coding sequence: 57..1535

55 1 11 21 31 41 51
 | | | | | |
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 CTTTGAACTC AGGGTCAACA CCAGCTATTG GACCTTACTA TGAAAAACAT GGATACCAAC 120
 CGGAAAAACC CTATCCCGCA CAGCCCACTG TGGTCCCCAC TGTCTACGAG GTGCATCCGG 180
 CTCAGTACTA CCGTCCCCC GTGCCCCAGT ACGCCCGGAG GGTCTGACG CAGGCTTCCA 240
 60 ACCCGTGTGT CTGCACGCAG CCCAAATCCC CATCCGGGAC AGTGTGCACC TCAAAGACTA 300
 AGAAAGCACT GTGCATCACC TTGACCCTGG GGACCTTCCT CGTGGGAGCT GCGCTGGCCG 360
 65 CTGGGCTACT CTGGAAGTTC ATGGGCAGCA AGTGTCCAA CTCTGGGATA GAGTGCAGCT 420
 CCTCAGGTAC CTGCATCAAC CCCCTAATCT GGTGTGATGG GTGTGCACAC TGCCCCGGCG 480
 GGGAGGACGA GAATCGGTGT GTTGGCTCTT ACGGACCAAA CTTCATCCTT CAGATGTACT 540
 CATCTCAGAG GAAGTCTCTG CACCTGTGTG GCCAAGACGA CTGGAACGAG AACTACGGGC 600
 70 GGGCGGCTGT CAGGACATG GGCTATAAGA ATAATTTTTA CTCTAGCCAA GGAATAGTGG 660
 ATGACAGCGG ATCCACCAGC TTTATGAAAC TGAACACAAG TGCCSGCAAT GTCGATATCT 720
 ATAAAAAAT GTACCACAGT GATGCTGTGT CTTCAAAAGC AGTGGTTTCT TTACGCTGTT 780
 TAGCCTGCGG GGTCAACTTG AACTCAAGCC GCCAGAGCAG GATCGTGGG GGTGAGAGCG 840
 CGCTCCCGGG GGCTCGGCC TGCCAGGTCA GCCTGCACGT CCAGAACGTC CACGTGTGCG 900
 75 GAGGCTCCAT CATCACCCCC GAGTGGATCG TGACAGCCGC CCACTGCGTG GAAAAACCTC 960
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 ATGAGAGCCG ATACCAAGTA CAAAAAGTGA TTTCTCATCC AAAATTATGAC TCCAAGACCA 1080
 AGAACATGTA CATTCGCTGT ATGAAGCTGC AGAAGCCTCT GACTTTCAAC GACCTAGTGA 1140
 AACCAGTGTG TCTGCCCAAC CCAGGCATGA TGCTGCAGCC AGAACAGCTC TGCTGGATT 1200
 80 CCGGGTGGGG GGCCACCGAG GAGAAAGGGA AGACCTCAGA AGTGTGAAC GCTGCCAAG 1260
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TGCCATACTG TGCAGCTCGC AGTGGCTCCC CTGCCAGCC TGTCTCCCT AACCCCTTGT 1740
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GTTGGAGGCT GCCCCATTG AGATCTTCTT GCTGAGTCTT TTCCAGGGGC CAATTTTGGG 1860
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TCCCCAGCT ACTTCACAAG GGGATTTTGC TGAATGGGTC TTAGAGCCTT AGCAGCCCTG 2040
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GAGGGAAGCA ATTGAAAAGG AACTTGCCCT GAGCACTCTT GGTGCAGGTC TCCACCTGCA 2220
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TCCTAGCACC CTGGAGAGTG AATGCCCTT GGTCCCTGGC AGGGCGCCAA GTTTGGCAAC 2340
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15 ATGCTCAGTT TAAGGTACAC TGTTTCCATG TTATGTTTCT ACACATTGAT GGTGGTGACC 2460
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Seq ID NO: 588 Protein sequence
Protein Accession #: NP_005647.1

20 1 11 21 31 41 51
MALNSGSPPA IGPYYENHGY QPENPYPAQP TVVPTVYEVH PAQYYPSEVP QYAPRVLTQA 60
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25 DSSGTCINPS NWCNDSVSHCP GGEDENRCVR LYGNPFLQFM YSSQRKSWHP VQDDWNENY 180
GAAACRDMGY KNNFYSSQGI VDDSGSTSFM KLNTSAGNVD IYKLYHSDA CSSKAVVSLR 240
CLACGVNLNS SRQSRIVGGE SALPGAWFWQ VSLHVQNVHV CGGSIITPEW IVTAAHCVKE 300
PLNPNFWHTA FAGILRQSFM FYGAGYQVQK VISHPNYDSK TKNDIALMK LQKPLTFNDL 360
VKPVLCPNPG MMLQPEQLCN ISGWGATBEK GKTSEVLNAA KVLLIETQRC NSRYVVDNLI 420
30 TPAMICAGFL QQNVDSQGD SGGPLVTSNN NIWWLIGDTS WSGGCAKAYR PGVYGNVMVF 480
TDWIYRQMK NG

Seq ID NO: 589 DNA sequence
Nucleic Acid Accession #: NM_001935.1
Coding sequence: 1..2301

35 1 11 21 31 41 51
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45 GTGAAGCAAT GGAGGCATTC CTACACAGCT TCATATGACA TTTATGATT AAATAAAAGG 420
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TGGGTTTATG AAGAGGAAGT CTTCACTGCC TACTCTGCTC TGTGGTGGTC TCCAAACGGC 660
50 ACTTTTTTAG CATATGCCCA ATTAAACGAC ACAGAAGTCC CACTTATGTA ATACTCCTTC 720
TACTCTGATG AGTCACTGCA GTACCCAAAG ACTGTACGGG TTCCATATCC AAAGGCAGGA 780
GCTGTGAATC CAACTGTAAA GTTCTTTGTT GTAAATACAG ACTCTCTCAG CTCAGTCACC 840
AATGCAACTT CCATACAAAT CACTGCTCCT GCTTCTATGT TGAATAGGGA TCACTACTTG 900
TGTGATGTGA CATGGGCAAC ACAAGAAAGA ATTCTTTTGC AGTGGCTCAG GAGGATTCAG 960
55 AACTATTGCG TCATGGATAT TTGTGACTAT GATGAATCCA GTGGAAGATG GAACTGCTTA 1020
GTGGCAGCGC AACACATTGA AATGAGTACT ACTGGCTGGG TTGGAAGATT TAGGCCTTCA 1080
GAACCTCATT TTACCTCTGA TGGTAATAGC TTCTACAAGA TCATCAGCAA TGAAGAAGGT 1140
TACAGACACA TTTGCTATTT CCAATATAGT AAAAAGACT GCACATTTAT TACAAAAGGC 1200
60 ACCTGGGAAG TCATCGGGAT AGAAGCTCTA ACCAGTGATT ATCTATACTA CATTAGTAAT 1260
GAATATAAAG GAATGCCAGG AGGAAGGAAT CTTTATAAAA TCCAACTTAG TGACTATACA 1320
AAAGTGACAT GCCTCAGTTG TGAGCTGAAT CCGGAAAGGT GTCACTACTA TTCTGTGTCA 1380
TTCAGTAAG AGGCGAAGTA TTATCAGCTG AGATGTTCCG GTCTGTGTCT GCCCTCTAT 1440
ACTCTACACA GCAGCGTGAA TGATAAAGG CTGAGAGTCC TGGGAAGCAA TTCAGCTTTG 1500
65 GATAAAATGC TGCAGAAATG CCAGATGCCC TCCAAAAAAC TGGACTTCAT TATTTTGAAT 1560
GAAACAAAAT TTTGGTATCA GATGATCTTG CCTCCTCATT TTGATAAATC CAAGAAATAT 1620
CCTCTACTAT TAGATGTGTA TGCAAGGCCA TGTAAGTCAA AAGCAGACAC TGTCTTCAGA 1680
CTGAACCTGG CCACTTACCT TGCAAGCACA GAAAAACATTA TAGTAGCTAG CTTTGTATGGC 1740
AGAGGAAGTG GTTACCAAGG AGATAAGATC ATGCATGCAA TCAACAGAAG ACTGGGAACA 1800
70 TTTGAAGTTG AAGATCAAAAT TGAAGCAGCC AGACAATTTT CAAAAATGGG ATTTGTGGAC 1860
AACAACCGAA TTGCAATTTG GGGCTGTGTA TATGGAGGGT ACGTAACCTC AATGGTCTGT 1920
GGATCGGGAA TTGGCGTGTT CAAGTGTGGA ATAGCCGTGG CGCCTGTATC CCGGTGGGAG 1980
TACTATGACT CAGTGTACAC AGAACGTTAC ATGGGTCTCC CAACTCCAGA AGACAACCTT 2040
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75 CTCTTATTC ATGGAACAGC AGATGATAAC GTTCACTTTC AGCAGTCAGC TCAGATCTCC 2160
AAAGCCCTGG TCGATGTGG AGTGGAATTC CAGGCAATGT GGTATACCTA TGAAGACCAT 2220
GGAATAGCTA GCAGCACAGC ACACCAACAT ATATATACCC ACATGAGCCA CTTCATAAAA 2280
CAATGTTTCT CTTTACCTTA G

Seq ID NO: 590 Protein sequence
Protein Accession #: NP_001926.1

80 1 11 21 31 41 51
MKTFWKILLG LLGAAALVTI ITVPVLLNK GTDDATADSR KTYTLTDYLK NTYRLKLYSL 60

5
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25
30
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RWISDHEYLY KQENNILVFN AEYGNSSVFL ENSTFDEFHG SINDYSISPD GQFILLEVNY 120
VKQMRHSYTA SYDIYDLNKR QLITEERIPN NTQWVWSPV GHKLAYVWNN DIYVKIEPNL 180
PSYRITWTGK EDIYYNGITD WYVEEVFSA YSALWWSFNG TFLAYAQFND TEVPLIEYSF 240
YSDLSLYPK TVRVPPYKAG AVNPTVKPFV VNTDSLSSVT NATSIQITAP ASMLIGDHYL 300
CDVTWATQER ISLQWLRRIQ NYSVMDICDY DESSGRWNCL VARQHIEMST TGNVGRFRPS 360
EPHFTLDGNS FYKIIISNEEG YRHICYFOID KDCCTFITKG TWEVIGIEAL TSDYLYIYN 420
EYKMGPPGRN LYKIQLSDYT KVTCLSCELN PERCQYYSVS FSKEAKYYQL RCSGPGLEPLY 480
TLHSSVNDKG LRVLEDNSAL DKMLQNVQMP SKKLDPIILN ETKFYQMIIL PPHFDKSKKY 540
PLLLDVYAGP CSQKADTVFR LNWATYLAST ENIIIVASFDG RGSQYQGDKI MHAINRRLGT 600
FEVEDIEAA RQFSKMGFVD NKRIAIWGS YGGYVTSMLV GSGSGVFKCG IAVAPVSRWE 660
YDVSVYTERY MGLPTPEDNL DHYRNTVMS RAENFKQVEY LLIHGTADDN VHFQQAQIS 720
KALVDVGVD FQAMMYTDEDH GIASSTARQH IYTHMSHFIF KQFSLP

Seq ID NO: 591 DNA sequence
Nucleic Acid Accession #: NM_016077.1
Coding sequence: 128..667

1 11 21 31 41 51
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CGCGATGAA ACCTGTTTCG TTGCCAGAA GAAGGGAAGG CGCAGTGAG GAAAGGAGGT 120
ACTGTAGATG CCTCCAAAT CTTGGTTAT GGAATATTG GCTCATCCCA GTACACTCGG 180
CTTGGCTGTT GGAGTTGCTT GTGGCATGTG CTTGGGCTGG AGCCTTCGAG TATGCTTTGG 240
GATGCTCCCC AAAAGCAAGA CGAGCAAGAC ACACACAGAT ACTGAAAGTG AAGCAAGCAT 300
CTTGGGAGAC AGCGGGGAGT ACAAGATGAT TCTGTGTGTT CGAATGACT TAAAGATGGG 360
AAAAGGGAAG GTGGCTGCCC AGTGCTCTCA TGCTGTGTT TCAGCTTACA AGCAGATTCA 420
AAGAAGAAAT CCTGAAATGC TCAACAATG GGAATACTGT GGCCAGCCCA AGGTGGTGGT 480
CAAGCTCCT GATGAAGAAA CCTGATTGC ATTATTGGCC CATGCAAAA TGCTGGGACT 540
GACTGTAAAT TTAATTCAAG ATGCTGGACG TACTCAGATT GCACCAAGCT CTCAAACTGT 600
CCTAGGAGAT GGGCCAGGAC CAGCAGACCT AATTGACAAA GTCACTGGTC ACCTAAACT 660
TACTAGTGT TACTTTGATA TGACAAACAC CCTCCATCA CAAGTGTGTT AAGCCTGTCA 720
GATTCTAACA ACAAAGCTG AATTCTTCA CCCAACTTAA ATOTTCTTGA GATGAAATA 780
AAACCTATTC CCATGTTCTA AAAAA

Seq ID NO: 592 Protein sequence
Protein Accession #: NP_057161.1

1 11 21 31 41 51
MPSKSLVMEY LAHPSTLGLA VGVACGMCLG WSLRVCFGML PKSKTSKTHT DTESEASILG 60
DSGEYKMLIV VRNDLKMKG KVAACQSHAA VSAKQIQRR NPEMLKQWEY CGQPKVVVKA 120
PDEETLIALL AHAKMLGLTV SLIQDAGRTQ IAPGSQTVLG IGPGPADLID KVTGHLKLY

Seq ID NO: 593 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..1896

1 11 21 31 41 51
ATGCGCGCGG TGCGCGTGCC CGCCCCGCTC CTGCGCGTGC TGCTGCTGCG GCTCCTGGCC 60
GCTCCCGCGG CCGCGCGCCG CAGAGCCGAG TCGTCTCCG CGCGGTGGCC CGAACCAGAG 120
CGCGAGTGGC GCGCCAGCGC CGGCCCGGGG CCGCGGAACA CCACCCGGTT TGGGTCTGGG 180
GCGCGCGCGG CGACGCGGCG CTCACAGTCC AACAGCAGTG GCGACGCCCT GGTGACCCGC 240
ATTTCATCC TCCTCGCGCA CCTACCCACC CTCAGGCGAG CGGTGATCGT GCGGTTCGCC 300
TTTACCAACC TCCTCATGCG CTGCGTCTG CTGCGGTCT TCAGGTGGG AAGAGGTTA 360
AAGAAGACAC CGAAGATGA TATCATCAC ACTCCAGCAG AGCGAGTGA AATGGCGCCA 420
CTAAATGAAG AGGATGATGA AGATGAGGAC TCCACAGTAT TCGACATCAA ATACAGAGTG 480
TCCTTGCCGG CTGCACTGAG ACCTCAGCTG CCAGGCTGCC AGACGCTACT GACAGTTCCT 540
GTGCCCCCAG CCTTCATCCT CGACATTGAC CTTCACAGCA GATGCACTGG AAGGCTGAT 600
GGTGAATCA GACCTGGTAA AACCTGTTTC CCAGCCTGGT GGCATCCTGT GGAAGTTGG 660
TCAGCTGCAA CCTGGGGTGT GAAGGACTGG ACCTGGAAGC CCTCTGCGT CGGAGGTGTT 720
GAAACCAAAA CGAAGCTTAT GTATAAAACC CCAGCTCCAT CGTGGGTGTC AGGCATCTGC 780
TCAGACTGTC ACTGGCAAGC TGTGTTCCAC GTCAACCAA TGGAGTTGCT TCTGCCACCC 840
TTTGGGCATC CCTTTAAAGT GCCCCTTACT TCTACTCCCC ATGGTTTTG ACAACTGCAG 900
CTGAATCTCA TGGAAAAGCT GGATTCCTCT GCCTTACGCA GAAACACCGG GGCTCCATCT 960
GCCAGGTGCT TGCCATGGT CCTGGCAGAA ATGGCGCTG CTGAAAGTGA CCTTCCAAAT 1020
CCTTGGTGGC ACTTCAGCGC CACAGGCTCT CCAATAAAAA CCTTTACAC ACAAACTATG 1080
AGTACCTTGG GCTTGGATGT TTTCTGTGGT GCGGCCAGC GGGGCACCTT TTGTGAAGAC 1140
AGAGCAGTGA CTAAGGTTCT CCAGGCTAGC TCTTTCTCCA AACAGCTGCG CTGGAAGCCA 1200
GCCCTAGAGA GTGGGTTTCC CCATCATCTC AGGCTTCTCA GAGAGTGTCC TCGCTGAGC 1260
ACCCATCCTG TCAGGTGGC TGTTCAGAT GCCCGGGGAC AAGCCAGCCT GACGGGGAGG 1320
AGGCTGTTTC GCGCTCGCGC GCAGTCTCTG CATGGCGGAG GGTGACGGG TACCCCAACT 1380
TGCTTTTGG TTTTGAAGAT TCTGTGAGG CGCATCTCTC ACCTTGACCT CTTCTACAAA 1440
ATCTGTCTCC CTTGCTGTGC CGTGGAAAC CTAAGGGAAG CCAAGAGAAG CTCAGTGACT 1500
GTCCTGCGT CATTTGAGCA GAGCCCAAAA AAGGCGAGCTG CTGCCACCGG GGAGCTCTGC 1560
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GCGAACCTGC AGACAATTCC AGATACCCAA GGCCAGGAAG GCCACGTGA GGATGTCACT 1680
CACCTGGAG GAGACTTGA TGGGGTGCA AATTCTATT TGGAGGAAGA GGGTTTCCAG 1740
GATGGCAGAT GCCAAGAGAT GGTCTGATG TCTGAGGAAG GGCCACCTAG TTTGACAGGA 1800
TGTGAGAGGC TCACAGGTTT CCATCACTTC TCCAGCCATT CCAAGTCTTG GTCCTTCCTT 1860
TCCCCCGAC AGCCCTGTTT TCTGTCCAG CCCTGA

Seq ID NO: 594 Protein sequence
Protein Accession #: FGENESH predicted

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1      11      21      31      41      51
5      |      |      |      |      |      |
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      AAGGSGSSSS NSSGDALVTR ISILLRDLPT LKAAVIVAFa FTLLIACLl LRVFRSGKRL 120
      KKTRKYDIIT TPAERVEMAP LNEEDEDDED STVFDIKYRV SLPAALRRQL PGCGTLLTVP 180
      VPPPFILDIID LPARCSGRPD GGIRPGKTCF PAWWHPVESW SAATWGVKDW TWKPSCVGGV 240
      ETKTNVMYKT PAPSCVSGIC SDCHWQARFH VTTMELLPP FGHPFKVPT STPHGFRQLQ 300
      LNLMEKLDSS ALRRNTRAPS ARCLPLVLAE MAAAESDLPN PWWHFSATGS PIKTLTYQTM 360
10     STLGLDVFCC AGQRGTFCED RAVTKVLQGS SFSKQLRWKP ALESQFPHHL RLLRECPPLS 420
      THPVLARSID ARGASLTGR RVFRRPRQSL HGGGSAGTAT CLLVLKILLR RHPHLDLFYK 480
      ICLPCCAVEH LREAKRSSVT VLASPEQSPQ KAAAAGEPV KRGPSGQLTR HTCPCWGITH 540
      ANLQTIPTDQ GQEGPREDDT HPGGDLGDVA NFYLEEGFQ DGRQKMWLM SEEGPPSLTG 600
15     CERLTGSHHF SSKSKWSFL SPRQLFLSR P

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Seq ID NO: 595 DNA sequence
Nucleic Acid Accession #: NM_021614.1
Coding sequence: 1..1740

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      GGAGGAGGTG CGCGCGCGTC CTCGCCGTCT GCAGCGCGCT CGCGCGCGCG CGCTGTTTCG 180
25     TCCTCAGCCC CCGAGATCGT GGTGTCTAAG CCCGAGCACA ACAACTCAA CAACCTGGCG 240
      CTCTATGGAA CCGCGCGCGG AGGCAGCACT GGAGGAGCGG GCGGCGGTGG CGGGAGCGGG 300
      CACGGCAGCA GCAGTGGCAC CAAGTCCAGC AAAAAGAAAA ACCAGAACAT CGGCTACAAG 360
      CTGGGCCACC GGGCGCGCCCT GTTCGAAAAG CGCAAGCGGC TCAGCGACTA CGCGCTCATC 420
      TTCGGCATGT TCGGCATCGT GGTCTAGGTC ATCGAGACCG AGCTGTCTGT GGGCGCCTAC 480
30     GACAAGCGGT CGCTGTATTC CTTAGCTCTG AAATGCCCTT TCAGTCTCTC CACGATCATC 540
      CTGCTCGGTC GTATCATCGT GTACCAAGCC AGGGAATATC AGTTGTTCAT GSTGGACAAT 600
      GGAGCAGATG ACTGGAGAAT AGCCATGACT TATGAGCGTA TTTCTTCAT CTGCTTGGAA 660
      ATACTGGTGT GTGCTATTCA TCCCATACCT GGGAAATTATA CATTACATG GACGGCCCGG 720
      CTGCGCTTCT CATTATGCCC ATCCAACAAC ACCGCTGATG TGGATATTAT TTTATCTATA 780
35     CCAATGTTCT TAAGACTCTA TCTGATGCCC AGAGTCATGC TTTTACATAG CAAACTTTTC 840
      ACTGATGCCCT CCTCTAGAAG CATTGGAGCA CTTAATAAGA TAAACTTCAA TACAGTTTTT 900
      GTTATGAAGA CTTTAATGAC TATATGCCCA GGAAGTGTAC TCTTGGTTTT TAGTATCTCA 960
      TTATGCTATA TTGCTGCTAT GACTGTCCGA GCTTGTGAAA GGTACCATGA TCAACAGGAT 1020
40     GTTACTAGCA ACTTCTCTGG AGCGATGTGG TTGATATCAA TAACTTTCT CTCCATTGGT 1080
      TATGGTGACA TGGTACCTAA CACATACTGT GGAAGAGGAG TCTGCTTACT TACTGGAATT 1140
      ATGGGTGCTG GTTGCAACAG CCTGGTGGTA GCTGTAGTGG CAAGGAAGCT AGAAGTTACC 1200
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      AATGCAGCTA CCAATGTACT CAGGGAACAA TGGCTAATTT ACAAATAATC AAAGCTAGTG 1320
45     AAAAGATAG ATCATGCAAA AGTAAGAAAA CATCAACGAA AATCCCTGCA AGCTATTCTAT 1380
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      GAAGACTTGG AGAAGAGGAT TGTACCCCTG GAAACAAAC TAGAGACTTT GATTGGTAGC 1560
      ATCCAGCCCC TCCCTGGGCT CATAAGCCAG ACCATCAGGC AGCAGCAGAG AGATTTCATT 1620
50     GAGGCTCAGA TGGAGAGCTA CACACAGCAC GTCACTTACA ATGCTGAGCG GTCCCGGTCC 1680
      TCGTCCAGGA GGGCGCGGTC CTCTCCACA GCACCAACAA CTTATCAGA GAGTAGCTAG

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Seq ID NO: 596 Protein sequence
Protein Accession #: NP_067627.1

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55     1      11      21      31      41      51
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      SSAPFIVVSK PEHNNNNLA LYGTGGGGST GGGGGGGSG HGSSSGTKSS KKKNNIGYK 120
      LGHRRALFEK RKRLSDYALI FGMPGIVVMV IETELSWAG DKASLYSLAL KCLISLSTII 180
60     LLGLLIIVYHA REIQLFMVND GADDWRIAMT YERIFFICLE ILVCAIHPI P GNYTFTWTAR 240
      LAFSYAPSTT TADVDIILSI PMFLRLYLIA RVMLLHSLKP TDASSRSIGA LNKINFNTRF 300
      VMKTLMTICP GTVLVLFVSI LWIIAAWTVR ACERYHQDD VTSNPLGAMW LISITFLSIG 360
      YGDMVPNTYC GKGVCLLTGI MGAGCTALVV AVVARKLELT KAEKHVHNFN MDTQLTKRVK 420
65     NAAANVIRET WLIYKNTKLK KIDHAKVRK HQRKFLQAIH QLRSVKMBQR KLNDQANTLV 480
      DLAKTONIMY DMISDLNERS EDFEKRIVTL ETKLETLIGS IHALPGLISQ TIRQQQRDFI 540
      EAQMESYDKH VTYNAERSRS SSRRRSSST APPTSSESS

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Seq ID NO: 597 DNA sequence
Nucleic Acid Accession #: NM_016029.1
Coding sequence: 228..1097

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      GGGCGTGCGC GGCCGCAATG AACTGGGAGC TGCTGCTGTG GCTGCTGGTG CTGTGCGCGC 120
      TGCTCTGTCT CTTGTGTGAG CTGCTGCGCT TCCTGAGGCG TGACGCGGAC CTGACGCTAC 180
      TATGGGCGGA GTGGCAGGGA CGACGCCAGC AATGGGAGCT GACTGATATG GTGGTGTGGG 240
      TGACTGGAGC CTCGAGTGGG ATTGGTGAGG AGCTGGCTTA CCAGTTGTCT AAACATAGGAG 300
80     TTTCTCTTGT GCTGTGACCC AGAAGAGTGC ATGAGCTGGA AAGGGTGAAA AGAAGATGCC 360
      TAGAGAATGG CAATTTAAAA GAAAAGATA TACTTGTGTT GCCCCTTGAC CTGACOSACA 420
      CTGGTTCCCA TGAAGCGGCT ACCAAGCTG TTCTCCAGGA GTTGTGTAGA ATGCACATTC 480
      TGGTCAACAA TGGTGGAAAT TCCACGCTT CTCTGTGCAT GGATACACAG TTGGATGTCT 540
      ACAGAAAGCT AATAGAGCTT AACTACTTAG GGACGGGTGC CTTGACAAAA TGTGTTCTGC 600
      CTCACATGAT CGAGAGGAAG CAAGGAAAGA TTGTTACTGT GAATAGCATC CTGGGTATCA 660

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5 TATCTGTACC TCTTTCCATT GGATACTGTG CTAGCAAGCA TGCTCTCCGG GGTTTTTTTA 720
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 GACCTGTGCA ATCAAAATATT GTGGAGAATT CCCTAGCTGG AGAAGTCACA AAGACTATAG 840
 GCAATAATGG AGACCAAGTCC CACAAGATGA CAACCAAGTCG TTGTGTGCGG CTGATGTTAA 900
 TCAGCATGGC CAATGATTGG AAAGAAGTTT GGATCTCAGA ACAACCTTTC TTGTTAGTAA 960
 CATATTTTGG GCAATACATG CCAACCTGGG CCTGGTGGAT AACCAACAAG ATGGGGGAAGA 1020
 AAAGGATTGA GAATTTTAAG AGTGGTGTGG ATGCAGACTC TTCTTATTTT AAAATCTTTA 1080
 AGACAAAACA TGACTGAAAA GAGCACCTGT ACTTTTCAAG CCACTGGAGG GAGAAATGGA 1140
 10 AAACATGAAA ACAGCAATCT TCTTATGCIT CTGAATAATC AAAGACTAAT TTGTGATTTT 1200
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Seq ID NO: 598 Protein sequence
 Protein Accession #: NP_057113.1

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25 Seq ID NO: 599 DNA sequence
 Nucleic Acid Accession #: NM_000793.2
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Seq ID NO: 600 Protein sequence
 Protein Accession #: NP_000784.2

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Seq ID NO: 601 DNA sequence
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Seq ID NO: 607 DNA sequence
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Seq ID NO: 608 Protein sequence
Protein Accession #: NP_001414.1

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Nucleic Acid Accession #: NM_004961.2
Coding sequence: 55..1575

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15 IKTESAPART SLGITSVLTM TTLGTFSRKN FPRVSYITAL DFYIAICFVF CFCALLEFAV 360
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Seq ID NO: 615 DNA sequence
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10 GTGTAAGAA AGCCAAATCA AGGACCCGAA TGTGAGCAGG ACCTCAGAAAG CCCCTTTTGT 240
CACTGCCCTCC CAGCAAAAGGC AGCACTATCC GGACTTCTAA CACCATCGGT GAGTTTCATA 300
CCTTGGCAGA TGGCCTTTAA CATTITTTGT TAATTCAATT ATCTTACTA ATCTTCTTCT 360
TTTTCTTGGC TGTGGTGCAT GGCTGTGGAG CTCAGGCTGG ACTCCTGTGG GGCAGCCAGT 420
TCTTGGATGG CTGTCTGTGG GTGGAGGACT CTGCTCTTC CTGTTTAGAC ACCCACAAAG 480
15 GCTGCTCTTT AGCCTCCTTC CCTTCATCCC CTTCCTCTGC CCCAGTGCA ACAGATATTA 540
CACAAACGAC AAAACCGCAA AATATTCCCA CAATTITCTG GTCTCTCTG GGAGAGGCCG 600
CTCTGGCTTT TCCCTCTCAG CCTGGCCCTC TGCTGTCTCC TCACTCTGG TTGGTGTCTG 660
TCAGGCTGAC TAGAGGCCAA GCGACCAAC ACTAGGCAA CGCGCCAGC GCTCAGACAT 720
20 AAATGCCCTC TTCATTTTAC GTGTAACTT CTTTTAAAA CTAGGTCTTG GTTTTGTGTA 780
TTTTTTCTTA AATAAAGAG TGATCATAAA AGAGGGACAG CATAGAAAGT CCCCAGAGAG 840
CAGCAAGGTT TAAAGAAAT TCACAAGCCT AATCTGTAC TGCTTTATAA TTTGCTATTA 900
CCAGTCACAA TTTAATAGG TTTTGTGTG AAAACTTGT TTGGTTTGT TCTGTCCCAA 960
GAGGCACTAC TGGGGGCCCT TACAGAGTGC AGGGCAGAGC TTCATTTTC GTTTGAATGT 1020
25 TCTAGGGTGC AGGGACCTCA GACTGAATCA AAGAATGAAG CCTCTTCCG TGATGTTGTC 1080
TATGGCCCCC AGCCCCAGCC CTCTGAAAAT CAGCTCCTCT CTGAGGAAAC AAAGTCAACT 1140
GAGACTGAGA CTGGGAGCAG AGTTGGCAAA CTGCCAGAG CCTCTCGCAT CCTGAACACT 1200
ATCCTGAGTA ATTATGACCA CAAACTGCGC CTGGCATTG GAGAGAAGCC CACTGTGGTC 1260
ACTGTGAGA TCTCCGTCAA CAGCCTTGGT CCTCTCTTA TCCTAGACAT GGAATACACC 1320
30 ATTGACATCA TCTTCTCCCA GACCTGGTAC GAGCAACGCC TCTGTACAA CGACACCTTT 1380
GAGTCTCTTG TTCTGAATGG CAATGTGGTG AGCCAGCTAT GGATCCCGGA CACTCTTTT 1440
AGGAATTCTA AGAGGACCCA CGAGCATGAG ATCACCATGC CCAACCAGAT GGTCCGCATC 1500
TACAAGGATG GCAAGGTGTT GTACACAATT AGGATGACCA TTGATGCGGG ATGCTCACTC 1560
CACATGCTCA GATTTCCTAA GGATTTCTAC TCTTGCCCTC TATCTTTCTC TAGCTTTTCT 1620
35 TATCCTGAGA ATGAGATGAT CTACAAGTGG GAAAATTTCA AGCTTGAAAT CAATGAGAAG 1680
AACTCCTGGA AGCTCTTCCA GTTTGATTTT ACAGGAGTGA GCAACAAAAC TGAATAATC 1740
ACAAACCCAG TTGGTGACTT CATGGTCAATG ACGATTTTCT TCAATGTGAG CAGGCGGTTT 1800
GGCTATGTTG CCTTTCAAAA CTATGTCCCT TCTTCGGTGA CCACGATGCT CTCTGGGTT 1860
TCTTTTGA GAACAACAGA GTCTGTCCA GCCCGGACCT CTCTAGGAT CACTCTGTT 1920
40 CTGACCATGA CCACGTTGGG CACCTTTTCT CGTAAGAATT TCCCGGCTG CTCTATATC 1980
ACAGCCTTGG ATTTCTATAT CGCCATCTGC TTGCTCTTCT GCTTCTGCGC TCTGTTGGAG 2040
TTTGCTGCTG TCAACTTCTT GATCTACAA CAGACAAAAG CCAATGCTTC TCTTAAACTC 2100
GGCCATCTCT GTATCAATAG CCGTGCCCAT GCCCCTACCC GTGCACTGTC CCGAGCCTGT 2160
GCCCCTCAAC ATCAGGAAGC TTTTGTGTGC CAGATTGTCA CCACTGAGGG AAGTGATGGA 2220
45 GAGGAGCGCC CGTCTGTGTC AGCCCGAGCAG CCCCTAGGCC CAGGTAGCCC TGAGGGTCCC 2280
CGCAGCCTCT GCTCCAAGCT GGCCTGCTGT GAGTGTGTGA AGCGTTTAA GAAGTACTTC 2340
TGCACTGCTC CCGATTGTGA GGGCAGTACC TGGCAGCAGG GCGCCTCTG CATCCATGTC 2400
TACCGCTGAG ATAACTACTC GAGAGTTGTT TTCCAGTGA CTCTCTCTCT CTCTCAATGTG 2460
CTCTACTGSC TTGTTTGCCT TAATTGTAG GTACCACTG GTACCTCTGT GGGCAACCTC 2520
50 TCCAGTTCCC CAGGAGGTC AAGCCCCCTG CCAAGGGAGT TGGGGGAAAG CAGCAGCAGC 2580
AGCAGGAGCG ACTAGAGTTT TTCTGCCCC ATTCGCCAAA CAGAAGCTTG CAGAGGGTTT 2640
GTCTTGTCTG CCCCTCTCCC CTACCTGGCC CATTCACTGA GTTTTCTCAG CAGACCATTT 2700
CAAATTATTA ATAAATGGGC CACCTCCCTC TTCTTCAAGG AGCATCCGTG ATGCTCAGTG 2760
TTCAAAACA CAGCCACTTA GTGATCAGCT CCCTAAAACC ATGCCTAAGT ACAGGCGGAT 2820
55 TAGCTATCTT CCAACAATGC TGACCACCAG ACAATTACTG CATTTTTCCT GAAGCCCACT 2880
ATTGCTTTTG CAGTGCTTTC GGCCAGTTC TGGCCTCAGC CTCAAAAGTC ACCGACTAGT 2940
TGCTTGGCTG TCACTGCTAC CTCAATGAAG TGTGCGGCG CAGTATAAAG GGAGGAAGAG 3000
ATCCCTCTCC TTGTGTGAGA TTATTATGTT CTCAGTTCTC TCTCCCTGCT ACCCTTTTCT 3060
CTGCAATGAG ATAGACACTG GCATTATCCC TTTAGGAAGA GGGGGGGGCA GCAAGAGAGC 3120
60 CTATTGTTGA CAGCATTTCT CTCTCTGTC TGCTGTGACA TCTCCCTCTC CTGTGCTGGT 3180
CCATCTTTGG TCTGCACTAC CAATTCAATG CCCTTCTATC AATGGGTATC TATTTTGTG 3240
TGTGATTATA GTAACTACTC CTGCTTTAT ATGCCACCTT CTCTCTCTC TTTGACCCCT 3300
GTGACTCTTT CTGTAACCTT CCCAGTACT TCCCTAGGCC CTGACCAGGC ACTAGGCTTT 3360
GGTACTTCC TGGGGCCAA AACTAAGGA AACTCGGCTT TGCAACAGGC ATTACTGSCC 3420
65 ATTGATTTGT GCCCACCAG GGCACACTGT CGGAGTTCTA TCACCTGCTT GACCCCTGGA 3480
CCCATAAACC AGTCCACTGT TATACCCGGG GCACTCTAAC CATCACAATC AATCAATCAA 3540
ATTCCCTTAA ATTTGTATGG CACTGGAACT TTGGCAAAGC ACTTTTGACA AGTTGTGTCT 3600
GATTGGAGCT TCAATGATAG CTGTGACAT CTTTAGGGCA GGATTTCTAT CCCCATTTTG 3660
70 CAGATGAAAA CCTGAGTCA CAGATTTCTG TGGGACTGTG GATCTCACTG GAAGCTATCC 3720
AAGAGCCCA TGTACCTTTC TAGACCACAT GATAGGGCTA GACAGCTCAG TTCACCATGA 3780
TCTCTTCTG TCACTCTGCG TGGCACACCA GTGGCAAGGC CCAGAATGGC GACCTCTCTT 3840
TAGCTCAATT TCTGGGCGCT AGGTGCTCAG ACTGCCCCCA AGATCAAATC TCTCTGGCT 3900
GTAGTAACCC AGTGGAAATG ATTTGGACAT GCCCAATGCT TTCTATATGC TAAGTGAAT 3960
75 CTGTGTCTGT AATTTGTTGG GGGGTGGATA GGGTGGGGTC TCCATCTACT TTTTGTCAAC 4020
ATCATCTGAA ATGGGGAAT ATGTAATAA ATATATCAGC AAAGC

Seq ID NO: 616 Protein sequence
Protein Accession #: NP_068830.1

80 1 11 21 31 41 51
MEYTIIDIFS QTWYDERLCY NDTFESLVLN GNVVSQLWIP DTFRRNSKRT HEHEITMPNQ 60
MVRIVKDGKV LYTIKRTIDA GCSLHMLRFP MDSHSCPLSF SSFSPYENEM IYKWNFKLE 120
INENKSWKLF QPDFTGVSNK TEIITTPVGD FMVMTIPFNV SRRFGYVAFQ NYVPSSVTTH 180
LSWVSEWIKT ESAPARTSLG ITSVLMTTL GTFSRKNFPR VSYITALDFY IAIQFVFCFC 240

ALLEFAVLNF LIYNQTKAHA SPKLRHPRIN SRAHARTRAR SRACARQHQE AFVCQIVTTE 300
 GSDGEERPSC SAQQPPSPGS PEGPRSLCSK LACCSEWCKRF KKYFCMVDPD EGSTNQQGRLL 360
 CIHVYRLDNY SRVVPVPTFF PPNVLYLWLC LNL

5

Seq ID NO: 617 DNA sequence
 Nucleic Acid Accession #: NM_004864.1
 Coding sequence: 26..952

10 1 11 21 31 41 51
 CGGAACGAGG GCAACCTGCA CAGCCATGCC CGGGCAAGAA CTCAGGACGG TGAATGGCTC 60
 TCAGATGCTC CTGGTGTTCG TGGTGTCTCT GTGGCTGCCG CATGGGGGCG CCCTGTCTCT 120
 GGCCGAGGCG AGCCGCGCAA GTTCCCGGG ACCCTCAGAG TTGCACTCCG AAGACTCCAG 180
 ATTCGAGAGG TTGCGGAACG GCTACGAGGA CCTGCTAACC AGGCTGCGGG CCAACGAGAG 240
 15 CTGGGAAGAT TCGAACACCG ACCTCGTCCC GGCCCTGCA GTCCGGATAC TCACGCCAGA 300
 AGTGGGCTG GATCCGCGG GCCACCTGCA CCTGCGTATC TCTCGGGCGC CCCTTCCCGA 360
 GGGGCTCCCC GAGGCTCTCC GCCTTCACCG GGCTCTGTTC CGGCTGTCCC CGACGGCGTC 420
 AAGGTCTGTG CACGTGACAC GACCGCTGCG GCGTCAGCTC AGCCTTGCAA GACCCCAAGC 480
 GCGCGCGCTG CACCTGCGAC TGTGCGCGCC GCGCTGCGAG TCGGACCAAC TGCTGGCAGA 540
 20 ATCTTGTGCC GACCGGCCCC AGCTGGAGTT GCACCTGCGG CCGCAAGCCG CCAGGGGGCG 600
 CCGCAGAGCG CTGCGCGCGA ACGGGGACGA CTGTGCGCTC GGGCCCGGGC GTTGTGCGCG 660
 TCTGCACACG GTCCGCGCGT CGCTGGAAGA CCTGGGCTGG GCGGATTGGG TGCTGTGCGC 720
 ACGGAGGTGT CAAGTGACCA TGTGCATCGG CGCGTGCCCG AGCCAGTTCC GGGCGGCAAA 780
 CATGCACGCG CAGATCAAGA CGAGCCTGCA CGCCTGAAG CCGACACCGG AGCCAGCGCC 840
 25 CTGCTGCGTG CCGCGCAGCT ACAATCCCAT GGTGCTCATT CAAAAGACCG ACACCGGGGT 900
 GTCGCTCCAG ACCTATGATG ACTTGTATAG CAAAGACTGC CACTGCATAT GAGCAGTCTC 960
 GGTCTCTCCA CTGTGCACCT GCGCGGGGGA GCGGACCTCA GTTGTCTCTG CCTGTGGAAT 1020
 GGGCTCAAGG TTCCTGAGAC ACCCGATTCC TGCCCAACA GCTGTATTTA TATAAGTCTG 1080
 30 TTATTATTAT TAAATTTATT GGGGTGACCT TCTTGGGGAC TCGGGGGCTG GTCTGATGGA 1140
 ACTGTGTATT TATTTAAAC TCTGGTGATA AAAATAAAGC TGTCTGAAT GTTAAAAAAA 1200
 AAAA

Seq ID NO: 618 Protein sequence
 Protein Accession #: NP_004855.1

35

1 11 21 31 41 51
 MPQQLRLTVN GSQMLLVLLV LSWLPHGGAL SLAEASRAS FPGSELHSED SRFRELKRY 60
 EDLLRLRLAN QSWEDSNTDL VPAPAVRIIT PEVRLSGSGH LHLRISRAAL PEGLEASRL 120
 40 HRLRLRLSPT ASRSNDVTRP LRRQLSLARP QAPALHLRLS PPSQSDQLL AESSSARPL 180
 ELHLRPPAAR GRRRARARNG DDCLGPGRC RLHTRVRSIL EDLGWADWVL SPREVQVIMC 240
 IGACPSQFRA ANMHAQIKTS LHRLKPDTEP APCCVPASYN PMVLIQKTDI GVSLLQTYDDL 300
 LAKDCHCI

45

Seq ID NO: 619 DNA sequence
 Nucleic Acid Accession #: NM_003979.2
 Coding sequence: 254..1357

50 1 11 21 31 41 51
 ATAACAGCAT GAAGTCCCGT GGAACCTGAA TAGGCGTGTC CTCTCCCTCG ACCCTCCCCC 60
 TCCTTGTCCC TCTGCTCACC CCTCGCTCGT TCCCTCCCTC CGGCGAGGGC CGCCTTTATA 120
 ACAACTGTCT AGAGTGCAGG GCGGGGATAG CTGTCCAAGG TCTCCCTCAG CACTGAGGAG 180
 CTGCGCTGCT GCCTCTTTCG GCGCGGGAAG CAGCACCAGG TTCAACGGCA ACSCCTTGGC 240
 55 ACTAGGGTCC AGAATGGCTA CAACAGTCCC TGATGGTTGC CGCAATGGCC TGAATCCAA 300
 GTACTACAGA CTTTGTGATA AGGCTGAAGC TTGGGGCATC GTCTAGAAAA CGGTGGCCAC 360
 AGCCGGGGTT GTGACCTCGG TGGCCTTCAT GCTCACTCTC CCGATCCTCG TCTGCAAGGT 420
 CAGGACTCC AACAGGCGAA AATGCTGCC TACTCAGTTT CTCTCTCTCC TGGGTGTGTT 480
 GGGCATCTTT GGCTCACCT TCGCTTCAT CATCGGACTG GACGGGAGCA CAGGGCCAC 540
 60 AGCTTCTTC CTCTTGGGA TCCTCTTTTC CATCTGCTTC TCCTGCTGCT TGCTCATGC 600
 TGTCAGTCTG ACCAAGCTCG TCCGGGGGAG GAAGCCCTT TCCCTGTGCG TGATTCGCG 660
 TCTGGCGGTG GGCCTCAGCC TAGTCCAGGA TGTATCGCT ATTGAATATA TTGTCTGAC 720
 CATGAATAGG ACCAAGTCA ATGTCTTTTC TGAGCTTTCC GCTCCTCGTC GCAATGAAGA 780
 65 CTTTGTCTC CTGCTCAGCT ACGTCTCTT CTGTATGGCG CTGACCTTCC TCATGTCTCT 840
 CTTACCTTC TGTGTTTCT TCACGGGCTG GAAGAGACAT GGGGCCCACT TCTACCTCAC 900
 GATGCTCTCT TCCATTGCCA TCTGGGTGGC CTGGATCACC CTGCTCATGC TTCTGACTT 960
 TGACCGCAGG TGGGATGACA CCACTCTCAG CTCGCGCTTG GCTGCCAATG GCTGGGTGTT 1020
 CCTGTGCTG TATGTTAGTC CCGAGTTTTC GCTGCTCACA AAGCAACGAA ACCCATGGA 1080
 70 TTATCTGTT GAGGATGCTT TCTGTAAACC TCAACTCGTG AAGAAGAGCT ATGTTGTGGA 1140
 GAACAGAGCC TACTCTCAAG AGGAAATCAC TCAAGGTTT GAAGAGACAG GGGACAGCT 1200
 CTATGCCCCC TATTCACAC ATTTTCAGCT GCAGAACCAG CCTCCCAAAA AGGAATTCTC 1260
 CATCCACCGG GCGCAGCTT GCGCGAGCCC TTACAAGAC TATGAAGTAA AGAAAGAGG 1320
 CAGCTAACTC TGTCTTGAAG AGTGGGACAA ATGCAGCCGG CGGCGAGATC TAGCGGAGC 1380
 75 TCAAGGGATG GTGGCGAAA TCTTGAGTCT TCTGAGAAAA CTGTACAAGA CACTACGGGA 1440
 ACAGTTTGCC TCCCTCCAG CCTCAACCAC AATTCTTCCA TGCTGGGGCT GATGTGGGCT 1500
 AGTAAGACTC CAGTTCTTAG AGGCGCTGTA GTATTTTTTT TTTTGTGCT CATCTTTGG 1560
 ATACTTCTTT TAAGTGGGAG TCTCAGGCAA CTCAAGTTTA GACCTTACT CTTTGTGTT 1620
 GTTTTTGAAA ACAGGATCTT GCTCTGTAC CAGGCTTGA GTGCAGTGGT GCGATCACAG 1680
 80 CCCAGTCAG CCTGACACAC CTGTGCTCAA GCAATCTCC CATCTCCATC TCCCAAAGTG 1740
 CTGGGATGAC AGGCGTGAGC CACAGCTCCC AGCCTAGGCC CTTAATCTTG CTGTTATTTT 1800
 CCATGGACTA AAGGTCTGCT CATCTGAGCT CACGCTGGCT CACACAGCTC TAGGGGCGCT 1860
 CTCCTCTAAC TCACAGTGGG TTTTGTGAGG CTCGTGGGCC CAGAGCAGAC CTGCATATCT 1920
 GAGCAAAAAT AGCAAAAGCC TCTCTAGCC CACTGGCCTG AATCTACACT GGAAGCCAAC 1980
 TTGCTGGCAC CCGCGCTCCC CAACCTTCT TGCTGGGTA GGAGAGGCTA AAGATCAACC 2040

TAAATTTACT CATCTCTCTA GTGCTGCCTC ACATTGGGCC TCAGCAGCTC CCCAGCACCA 2100
 ATTACAGAGT CACCCCTCTC TTCTTGCACT GTCCCAAAAC TTGCTGTCAA TTCCGAGATC 2160
 TAATCTCCCC CTACGCTCTG CCAGGAATTC TTTCAGACCT CACTAGCACA AGCCCGGTTG 2220
 CTCTCTGTCA GGAGAATTTG TAGATCATTC TCACTTCAAA TTCTCTGGGC TGATACTTCT 2280
 CTCATCTTGC ACCCAACCT CTGTAAATAG ATTTACCGCA TTACGGCTG CATTCTGTAA 2340
 GTGGGCATGG TCTCTTAATG GAGGAGTGT CATTGTATAA TAAGTTATTC ACCTGAGTAT 2400
 GCAATAAAGA TGTGGTGGCC ACTCTTTCAT GGTGGTGGCA GCAAAAAAAA AAAAAA

Seq ID NO: 620 Protein sequence
 Protein Accession #: NP_003970.1

1 11 21 31 41 51
 MATTVPDCCR NGLKSKYYRL CDKABAWGIV LETVATAGVV TSVAFMLTLP ILVCKVQDSN 60
 RRKMLPTQFL FLLGVLGIFG LTFAPFIIGLD GSTGPTRFFL FGILFSICPS CLLAHAVSLT 120
 LKVRGRKPLS LLVLGLAVG FSLVQDVIAI EYIVLTMRNT NVNVFSELSA PRNEDFVLL 180
 LTVVLFMLAL TFLMSSFTFC GSFTGWKRHG AHIXLTMLLS IAIWVAVITL LMLPDFDRRW 240
 DDTILSSALA ANGVVFLLAY VSPFEWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY 300
 SQEITQGF ETDGTLAPY STHFQLQNP PQKEFSIPRA HAWPSPYKDY EVKKEGS

Seq ID NO: 621 DNA sequence
 Nucleic Acid Accession #: NM_002423.2
 Coding sequence: 48..851

1 11 21 31 41 51
 ACCAAATCAA CCATAGGTCC AAGAACAATT GTCTCTGGAC GGCAGCTATG CGACTCACCG 60
 TGCTGTGTGC TGTGTGCTGC CTGCCTGGCA GCCTGGCCCT GCGCTGCCT CAGGAGGCGG 120
 GAGGCATGAG TGAGCTACAG TGGGAACAGG CTCAGGACTA TCTCAAGAGA TTTTATCTCT 180
 ATGACTCAGA AACAAAAAAT GCCAACAGTT TAGAAGCCAA ACTCAAGGAG ATGCAAAAAT 240
 TCTTTGSCCT ACCTATAACT GGAATGTTAA ACTCCCGCGT CATAGAAATA ATGCAGAAGC 300
 CCAGATGTGG AGTGCCAGAT GTTGCCAGAA ACTCACTATT TCCAAATAGC CCAAAATGGA 360
 TCTCCAAAGT GGTCACTCAT AGGATCGTAT CATATACTCG AGACTTACCG CATATTACAG 420
 TGGATCGATT AGTGTCAAAG GCTTTAAACA TGTGGGGCAA AGAGATCCCC CTGCATTTC 480
 GGAAAGTTGT ATGGGGAAT GCTGACATCA TGATTGGCTT TGCAGGAGGA GCTCATGGGG 540
 ACTCTACCC ATTGTATGGG CCAGGAAACA CGCTGGCTCA TGCCCTTGGC CTGGGACAG 600
 GTCTCGGAGT AGATGCTCAC TTCGATGAGG ATGAACGCTG GACGGATGGT AGCAGTCTAG 660
 GGATTAACCT CCTGTATGCT GCAACTCATG AACTTGGCCA TTCTTTGGGT ATGGGACATT 720
 CCTCTGATCC TAATGCAGTG ATGTATCCAA CCTATGGAAA TGGAGATCCC CAAAATTTTA 780
 AACTTTCCCA GGATGATATT AAAGGCATTC AGAACTATA TGGAAAGAGA AGTAATTCAA 840
 GAAAGAAATA GAAACTTCAG GCAGAACATC CATTCAITCA TTCTATGGAT TGATATCAT 900
 TGTGTCAAA TCAGAAATGA TAAGCACTGT TCCTCCATC CATTAGCAA TTATGTCAAC 960
 CTTTATTATT GCAGTTTGGT TTTGAATGTC TTTCACCTCT TTTATTGGTT AAACCTCTTT 1020
 ATGGTGTGAC TGTGCTTAT TCCATCTATG AGCTTTGTCA GTGCGCGTAG ATGTCAATAA 1080
 ATGTACATA CACAAATAAA TAAATGTTT ATTCCATGGT AAATTTA

Seq ID NO: 622 Protein sequence
 Protein Accession #: NP_002414.1

1 11 21 31 41 51
 MRLTVLCVAV LLPGLSLALPL PQEAGGMSEL QWBOAQDYLK RFYLYDSETK NANSLEAKLK 60
 EMQKFFGLPI TGLMNSRVIE IMQKPRGVP DVAEYSLFFN SPKWTSKVVT YRIVSYTRDL 120
 PHITVDRLVS KALANMWGKEI PLHFRKVVWG TADIMIGPAR GAHGDSPYFD GPGNTLAHAP 180
 APGTGLGDDA HFDEDERWTD GSSLGINFLY AATHELGHSL GMGHSSDPNA VMPYTYGNCD 240
 PQNFKLSQDD IKGIQKLYGK RSNRSRKK

Seq ID NO: 623 DNA sequence
 Nucleic Acid Accession #: NM_031457.1
 Coding sequence: 204..956

1 11 21 31 41 51
 AAACAGGAAA TAAATACGAA TGAACCTGAG CTCTAAGCAG CATGTAACCT GGCCTGCATC 60
 CAGGAAATAG AGGACTTCGG ATCCTTCTAA CCTACCAACC CACTGGCCCT CAGTACATTC 120
 ATCTCTCAG GAAAAA AACAGGTCCCA CAGCAAGAA AAGGAATAGG ATCAAGAGAT 180
 ACGTGGCTGC TGGCAGAGCA AGCATGAATT CGATGACTTC AGCAGTTCCG GTGGCCAAAT 240
 CRTGTGTGGT GGTGGCACCC CACAATGGTT ATCCTGTGAC CCCAGGAATT ATGCTCACG 300
 TGCCCTCTGA TCCAAACAGC CAGCGCAAG TCCACCTAGT TCCTGGGAAC CCACCTAGTT 360
 TGGTGTGAA TGTGAATGG CAGCTGTGTC AGAAAGCTCT GAAAGAAGGC AAAACCTTGG 420
 GGGCCATCCA GATCATCATT GGCCTGGCTC ACATCGGCTC GGGCTCCATC ATGGCGAOCG 480
 TTCTGTAGG GGAATACCTG TCTATTTCAT TCTACGGAGG CTTCCTCTC TGGGGAGGCT 540
 TGTGTTTAT CATTTCAGGA TCTCTCTCCG TGGCAGCAGA AAATCAGCCA TATCTTATT 600
 GCCTGCTGC TGGCAGTTTG GGCTTGAACA TCGTCAGTGC AATCTGCTCT GCAGTTGGAG 660
 TCATATCTTT CATCACAGAT CTAAGTATTC CCCACCCATA TGCTACCCC GACTATTATC 720
 CTTACGCCCTG GGGTGTGAAC CTTGGAATGG CGATTCTCGG GGTGCTGCTG GTCTTCTGCC 780
 TCCTGGAGTT TGGCATCGCA TGGCATCTT CCCACTTGG CTGCCAGTTG GTCTGCTGTC 840
 AATCAAGCAA TGTGAGTGTG ATCTATCCAA ACATCTATGC AGCAAAACCA GTGATCACCC 900
 CAGAACCGGT GACCTCACCA CCAAGTTATT CCAAGTATGC CCAAGCAAT AAGTAAGGCT 960
 ACAGATCTCG GAAGCATCTT TCACTGGGAC CAAAGAAAGT CCTCTCTCT TCTCTGGGCT 1020
 CCATAACCCA GGTCTGTTCT GTTCTGACAG CTGAGGAAAC GTCTCTCCA CTGTTTGTAC 1080
 TCTCACCTTC ATTCTTCAAT TCAGTCTAGG AAACCATGCT GTTCTCTAT CAAGAAGAAG 1140
 ACAGAGATT TAAACAGATG TTAACCAAGA GGGACTCCCT AGGGCACATG CATCAGCACA 1200
 TATGTGGGCA TCCAGCCTCT GGGGCCTTGG CACACACACA TTCGTGTGCT CTGCTGCATG 1260

TGAGCTTGTG GGTTAGAGGA ACAAATATCT AGACATTCAA TCTTCACTCT TTCAATTGTG 1320
CATTCAATTA ATAAATAGAT ACTGAGCATT CAAAAA AAAA

5 Seq ID NO: 624 Protein sequence
Protein Accession #: NP_113645.1

1 11 21 31 41 51
MNSMTSAVPV ANSVLVVAPH NGYPVTPGIM SHVPLYPNSQ PQVHLVPGNP PSLVSNVNGQ 60
10 PVQKALKEKG TLGAIQIIIG LAHIGLGSIM ATVLVGEYLS ISFYGGFPFW GGLWFIISGS 120
LSVAAENQPY SYCLLSGSLG LNIVSAICSA VGVILFITDL SIPHPYAYPD YYPYANGVNP 180
GMAISGVLV FCLLEFGIAC ASSHFGCQLV CCQSSNVSVI YPNIYAANPV ITPEPVTSPF 240
SYSSEIQANK

15 Seq ID NO: 625 DNA sequence
Nucleic Acid Accession #: NM_005221.3
Coding sequence: 1..870

20 1 11 21 31 41 51
ATGACAGGAG TGTITGACAG AAGGGTCCCC AGCATCCGAT CCGGCGACTT CCAAGCTCCG 60
TTCAGACGCT CCGCAGCTAT GCACCATCCG TCTCAGGAAT CGCCAACCTT GCCCGAGTCT 120
TCAGCTACCG ATTCTGACTA CTACAGCCCT ACGGGGGGAG CCGCGCAOCC CTACTGCTCT 180
25 CCTACCTCGG CTTCCTATGG CAAAGCTCTC AACCCCTACC AGTATCAGTA TCACGGCGTG 240
AACGGCTCCG CCGGGAGCTA CCCAGCCAAA GCTTATGCCG ACTATAGCTA CGCTAGCTCC 300
TACCACCACT ACGGCGGCGC CTACAACCGC GTCCCAAGCG CCACCAACCA CCGCAGAGAA 360
GAAGTGACCT AGCCCGAGGT GAGAATGGTG AATGGCAAA CAAAGAAAGT TCGTAAACCC 420
AGGACTATTT ATTCCAGCTT TCAGCTGGCC GCATTACAGA GAAGGTTTCA GAAGACTCAG 480
30 TACCTCGCCT TGCCGGAACG CGCCGAGCTG GCGGCTCGC TGGGATTGAC ACAAACACAG 540
GTGAAATCT GGTITCAGAA CAAAGATGCC AAGATCAAGA AGATCATGAA AAACGGGGAG 600
ATGCCCCCG AGCAGAGTCC CAGCTCCAGC GACCCAATGG CGTGAACCTC GCGCAGTCT 660
CCAGCGTGT GGGAGCCCA GGGCTCGTCC CGCTCGCTCA GCCACCAACC TCATGCCAC 720
CCTCCGACTT CCAACCAAGT CCCAGCGTCC AGTACCTGG AGAACTCTGC ATCCTGGTAC 780
35 ACAAGTCGAG CCAGCTCAAT CAATCCCAC CTGCCGCGC CCGGCTCCTT ACAGCACCCG 840
CTGGCGCTGG CTCCGGGAC ACTCTATTAG

Seq ID NO: 626 Protein sequence
Protein Accession #: NP_005212.1

40 1 11 21 31 41 51
MTGVFDRRVP SIRSDFQAP FQTSAAHHP SQESPTLPES SATDSDYSP TGGAPHGYCS 60
PTASASYKAL NPYQYQYHGV NGSAGSYPAK AYADYSYASS YHQYGGAYNR VPSATNQPEK 120
45 EVTEPEVRMV NGKPKKVRKP RTIYSSFQLA ALQRRFQKTQ YLALPERABL AASLGLTQTQ 180
VKIWFQNKRS KTKIKMKNGE MPPEHSPSSS DPMACNSPQS PAVWEPOGSS RSLSHHFPAH 240
PPTSNQSPAS SYLENSASWY TSAASSINSH LPPPGSLQHP LALASGTLV

50 Seq ID NO: 627 DNA sequence
Nucleic Acid Accession #: NM_014420
Coding sequence: 118..792

55 1 11 21 31 41 51
GCACGAGAGA CGACGTGCTG AGCTGCCAGC TTAGTGGAAG CTCTGCTCTG GGTGGAGAGC 60
AGCCTCGCTT TGGTGACGCA CAGTGTGGG ACCCTCCAGG AGCCCCGGGA TTGAAGGATG 120
GTGGCGGCCG TCTCTCTGGG GCTGAGCTGG CTCTGCTCTC CCCTGGGAGC TCTGCTCTG 180
GACTTCAACA ACATCAGGAG CTCTGCTGAC TCGATGGGG CCGGGAAGGG CTCACAGTGC 240
CTGTCTGACA CGGACTGCAA TACCAGAAAG TTCTGCCTCC AGCCCCGCGA TGAGAAGCCG 300
60 TTCTGTGCTA CATGTCGTGG GTTGCGGAGG AGGTGCCAGC GAGATGCCAT GTGCTGCCCT 360
GGGACACTCT GTGTGAACGA TGTITGTACT ACGATGGAAG ATGCAACCCC AATATTAGAA 420
AGGCAGCTTG ATGAGCAAGA TGGCACACAT GCAGAAGGAA CAACTGGGCA CCCAGTCCAG 480
GAAAACCAAC CCAAAGGAA GCCAAGTATT AAGAAATCAG AAGCAGGAA GGGACAGAG 540
GGAGAAAGTT GTCTGAGAAC TTTTGAAGT GGCCTGGAC TTTGCTGTGC TCGTCAITTT 600
65 TGGACGAAAA TTTGTAAGCC AGTCCTTTTG GAGGGACAGG TCTGCTCCAG AAGAGGGCAT 660
AAGACACTGT CTCAGCTCC AGAAATCTTC CAGCGTTGCG ACTGTGGCCC TGGACTACTG 720
TGTCGAAGCC AATTGACCAAG CAATCGGCAG CATGCTCGAT TAAGAGTATG CCAAAAAATA 780
GAAAAGCTAT AAATATTTC AATAAAGAA GAATCCACAT TGCAAAAAA AAAAAAATA 840
A

70 Seq ID NO: 628 Protein sequence
Protein Accession #: NP_055235

75 1 11 21 31 41 51
MVAAVLLGLS WLCSPLGALV LDPNNIRSSA DLHGARKGSQ CLSDTDCNTR KFCLQPRDEK 60
PFCATCRGLR RRCQRDAMCC FGTLCVNDVC TTMEDATPIL ERQLDEQDGT HAEGTGHFPV 120
QENQPKRKPS IKKSQGRKQ EGESCLRTFD CGPLCCARH FWTKICKPVL LEGQVCSRRG 180
HKDTAQAPFI FQRDCGPGL LCRSQTLSNR QHARLRVCQK IEKL

80 Seq ID NO: 629 DNA sequence
Nucleic Acid Accession #: NM_002448.1
Coding sequence: 241..1134

1 11 21 31 41 51

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GCGCGAGTGC	TCCCGGGAAC	TCTGCCTGCG	CGGCGGCAGC	GACCGGAGGC	CAGGCCCAGC	
ACGCCGGAGC	TGGCCTGCTG	GGGAGGGGCG	GGAGGCGCGC	GCGGGAGGGT	CCGCCCGGCC	120
AGGCCCGGGG	CCCTCGCAGA	GGCCGGCCGC	GCTCCAGCGC	CGCCCGGAGC	CCATGCCCGG	180
CGGCTGGCCA	GTGCTGCGGC	AGAAGGGGGG	GCCCGGCTCT	GCATGGCCCC	GGCTGCTGAC	240
ATGACTTCTT	TGCCACTCGG	TGTCAAAGTG	GAGGACTCCG	CCTTCGGCAA	GCCGGCGGGG	300
GGAGGCGCGG	GCCAGGCCCC	CAGCGCCGCC	GCGGCCACGG	CAGCCGCCAT	GGGCGCGGAC	360
GAGGAGGGGG	CCAAGCCCAA	AGTGTCCCTT	TCGCTCCTGC	CCTTCAGCGT	GGAGGCGCTC	420
ATGGCCGACC	ACAGGAAGCC	GGGGGCCAAG	GAGAGCGCCC	TGGCGCCCTC	CGAGGGCGTG	480
CAGGCGGGCG	GTGGCTCGGC	GCAGCCACTG	GGCGTCCCGC	CGGGGTCGCT	GGGAGCCCCG	540
GACGCGCCCT	CTTCGCGCGG	GCCGCTCGGC	CATTCTCGG	TGGGGGGACT	CCTCAAGCTG	600
CCAGAAGATG	CGCTCGTCAA	AGCCGAGAGC	CCCAGAGAAG	CCGAGAGGAC	CCCGTGGATG	660
CAGAGCCCCC	GCTTCTCCCC	GCCGCGGGCC	AGGCGGCTGA	GCCCCCCAGC	CTGCACCCTC	720
CGCAAAACAA	AGACGAACCG	TAAGCCGCGG	ACGCCCTTCA	CCACCGCGCA	GCTGCTGGCG	780
CTGGAGCGCA	AGTTCCGCGA	GAAGCAGTAC	CTGTCCATCG	CCGAGCGCGC	GGAGTTCTCC	840
AGCTCGCTCA	GCCTCACTGA	GACGAGGTG	AAGATATGGT	TCCAGAACCG	CCGCGCCAAG	900
GCAAAAGAGC	TACAAGAGGC	AGAGCTGGAG	AAGCTGAAGA	TGGCCGCCAA	GCCCATGCTG	960
CCACCGGCTG	CCCTCGGCCT	CTCCTTCCCT	CTCGGCGGCC	CCGCAGCTGT	AGCGGCGCGG	1020
CGGGGTGGCT	CGCTCTACGG	TGCCCTTGCC	CCCTTCCAGC	GCGCCGCGCT	GCCTGTGGCG	1080
CCCGTGGGAG	TCTACACGGC	CCATGTGGGC	TACAGCATGT	ACCACCTGAC	ATAGAGGGTC	1140
CCAGGTCCCC	ACCTGTGGGC	CAGCCGATTC	CTCCAGCCCT	GGTGTGTAC	CCCCGACGTG	1200
CTCCCTTGCT	CGGCACCGCC	AGCCGCTTTC	CCTTTAACCC	TCACACTGCT	CCAGTTTCAC	1260
CTCTTTGCTC	CCTGAGTTCA	CTCTCCGAAG	TCTGATCCCT	GCCAAAAAGT	GGCTGGAAGA	1320
GTCCCTTAGT	ACTCTTCTAG	CATTAGATC	TACACTCTCG	AGTTAAAGAT	GGGGAAACTG	1380
AGGGCAGAGA	GGTTAAACAGA	TTTATCTAGG	GTCCCCAGCA	GAATTGACAG	TTGAACAGAG	1440
CTAGAGGCCA	TGCTCTCTGC	ATAGCTTTTC	CCTGTCTCTG	CACCAGSCAA	GAAAAGCGCA	1500
GAGAAATCGG	TGCTGTACGA	TTTTGGAAAT	GAGAACATC	TCAAAAAAAA	AAAAAAAATA	1560
AAAAAAAATA	GAAAAGAGAA	AAAAAAGACT	AGCCAGCCAG	GAAGATGAAT	CCTAGCTTCT	1620
TCCATTGGAA	AATTTAAGAC	AAGTTCAACA	ACAAAACATT	TGCTCTGGGG	GGCAGGGAAA	1680
ACACAGATGT	GTTGCAAAAG	TAGGTTGAAG	GGA			

Seq ID NO: 630 Protein sequence
Protein Accession #: NP_002439.1

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MTSLPLGVKV	EDSAFGKPG	GGAGQAPSAA	AATAAAMGAD	EBGAKPKVSP	SLLPFSVEAL	
MADHRKPGAK	ESALAPSEGV	QAAGGSAQPL	GVPPGSLGAP	DAPSPSPRLG	HFSVGGGLKL	120
PEDALVKAES	PEKPERTFWM	QSPRFSPPPA	RRLSPPACTL	RKHKTNRKPR	TPFTTAQLLA	180
LERKFRQKQV	LSIAERAFFS	SSLSLTETQV	KIWFQNRRAK	AKRLQEAEL	KLKMAAKPML	240
PFAAFGLSFP	LGGPAAVAAA	AGASLYGASG	PFQRAALFVA	PVGLYTARVG	YSMYHLT	

Seq ID NO: 631 DNA sequence
Nucleic Acid Accession #: NM_002557.1
Coding sequence: 13..2049

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CAGACCATTG	AGATGTGGAA	GCTGTGCTG	TGGGTGGGC	TGTTCTTGT	GCTGAAACAC	
CAGGATGGTG	CTGCCCATTA	ACTCGTGTGT	TATTTCACCA	ACTGGGCACA	CAGTCGGCCA	120
GGCCCTGCCT	CATCTTGCC	CCATGACCTG	GACCCCTTTC	TCTGCACCCA	CCTGATATTT	180
GCCTTTGCCT	CAATGAACAA	CAATCAGATT	GTGCTAAGG	ATCTCCAGGA	TGAGAAAATT	240
CTCTACCCAG	AGTTCAACAA	ACTAAGGAG	AGGAACAGAG	AGCTGAAAC	ACTACTGTCC	300
ATCGGCGGCT	GGAACTTTGG	CACCTCAAGA	TTCACCACTA	TGTTGTCCAC	ATTGTCCAAC	360
CGTGAAGAAT	TTATTGCTTC	AGTTATATCC	CTTCTGAGGA	CACATGACTT	TGATGTGCTT	420
GACCTTTTCT	TCTTATATCC	TGGACTAAGA	GGCAGCCCCA	TGCTATGACG	GTGGACTTTT	480
CTCTTCTTAA	TGTAAGAGCT	CCTGTTTGCC	TTCCGGAAGG	AGGCACTGCT	CACCATGCGC	540
CCGAGGCTGC	TGCTGTCTGC	TGCTGTTTCT	GGGGTCCAC	ACATCGTCCA	AACATCCTAT	600
GATGTGCGCT	TTCTAGGAAG	ACTCCTGGAT	TTCAATCAATG	TCTTGTCTTA	TGACTTACAT	660
GGAAGTGGG	AAAGGTTTAC	AGGACATAAT	AGCCCCCTCT	TCTCTCTGCC	TGAAGACCCC	720
AAATCTTCGG	CATATGCTAT	GAATTATGG	AGAAAGCTTG	GGGCACCCCTC	AGAGAAGCTC	780
ATCATGGGGA	TCCCCACCTA	TGGACGTACC	TTTCGCCCTCC	TCAAAGCCTC	TAAGAATGGG	840
TTGAGGGCCA	GAGCGATCGG	ACCAGCATCT	CCAGGGAAGT	ACACCAAGCA	AGAAGGCTTC	900
TTGGCTTATT	TTGAGATTGG	TTCCCTTGTC	TGGGGAGCGA	AGAAGCACTG	GATGTATTAC	960
CAGTATGTCC	CGTATGCCAA	CAAGGGGAAA	GAGTGGGTTG	GCTATGACAA	TGCCATCAGC	1020
TTCACTTACA	AGGCATGTGT	TATAAGGCGA	GAGCATTITG	GGGGGGCCAT	GGTGTGGACA	1080
TTGGACATGG	ATGACGTCAG	GGGCACGTTT	TGTGGCAGTG	GCCCTTTCCC	CCTTGTCTAC	1140
GTATTGAATG	ATATCCTGTT	GCGGGCTGAG	TTCAAGTCAA	CTTCTTTACC	ACAATTTTGG	1200
CTGTCACTCG	CTGTGAATTC	TTCAAGCACT	GACCCTGAAA	GGCTGGCTGT	GACCACGGCA	1260
TGGACCACTG	ATAGTAAGAT	TTTGCCCCCA	GGAGGAGAGG	CTGGGGTCAC	TGAGATCCAC	1320
GGAAAGTGTG	AAAATATGAC	TATAACCCCT	AGAGGTACAA	CTGTGACCCC	TACAAAGGAA	1380
ACTGTATCCC	TTGGAAAGCA	CACGTAGCT	CTAGGAGAGA	AGACTGAGAT	CACGTGGGCA	1440
ATGACCATGA	CTTCTGTGGG	TCATCAGTCC	ATGACCCCTG	GAGAGAAGGC	CCTGACCCCT	1500
GTGGGTCTAT	AACTGTGTAC	CACGTGGACG	AAGACCCCTG	CCTCTGTGGG	TTATCAGTCT	1560
GTGACCCCTG	GGGAAAGAGC	CCTGACCCCT	GTGGGTCTAT	AGTCTGTGAC	CCCTGTGAGT	1620
CATCAGTCTG	TGAGCCCTCG	AGGAACGACT	ATGACCCCTG	TCCATTTCAC	GACTGAGACC	1680
CTTAGACAGA	ATACAGTGGC	CCCTAGAAGG	AAGGCTGTGG	CCCGTGAAAA	GGTGACTGTC	1740
CCCTCCAGAA	ACATATCAGT	CACCCCTGAA	GGGCAGACTA	TGCCCTTAAG	AGGGGAGAA	1800
TTGACTTCTG	AGGTGGGCGC	TCACCCCAAG	ATGGGTAACT	TGGGTCTTCA	GATGGAAGCT	1860
GAAAACAGGA	TGATGCTGTG	CTCCAGCCCC	GTATCCAGC	TCCCGGAAAC	AACCTCTCTA	1920
GCTTTTGACA	ACCGCTTTGT	TCCCATCTAT	GGAAACCAAT	CCTCTGTCAA	CTCAGTAACC	1980
CCTCAAAACAA	GTCTCTTTTC	TCTAAAAAAA	GAAATCCAG	AAAACCTCTG	TGTGGATGAA	2040
GAAGCCTAAG	CCCTCTGTGT	GTGAGAAACC	AGGGAAACCC	CTTGTCTTTT	CTTCTAAGTG	2100
ACATGTGTGA	AGCCTTCTCA	TCCCGGGGCA	AAGCAGGCAT	CAAAACAGGA	ATAGGCCAAT	2160

CTCTTTTCCA TTAAATAAAC TGTAACACA AGAACCCA

Seq ID NO: 632 Protein sequence
 Protein Accession #: NP_002548.1

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1	11	21	31	41	51	
MWKLKLVVGL	VLVLKHDGA	AHKLVCYFTN	WAHSRPGPAS	ILPHDLDPFL	CTHLIFAFAS	60
MNNQIVAKD	LQDEKILYPE	FNKLKERNRE	LKTLLSIGGW	NFGTSRFTTM	LSTFANREKF	120
IASVISLLRT	HPFDGLDLFF	LYPGLRGSEF	HDRWTFLELI	EELLFAFRKE	ALLTMRPRLL	180
LSAAVSGVPH	IVQTSYDVRF	LGRLLDFINV	LSYDLHGSWE	RFTGHNSPLF	SLPEDPKSSA	240
YAMNYWRKLG	APSEKLIMGI	PTYGRTFRLL	KASKNGLQAR	AIGPASPGKY	TKQEGFLAYF	300
EICSEFVMGAK	KHWIDYQYVP	YANKGKEWVG	YDNAISFSYK	AWFIRREHFG	GAMVWTLDM	360
DVRGTFCCGT	PFPLVYVLND	ILVRAEFSST	SLPQFWLSSA	VNSSSTDPER	LAVTTAWTTD	420
SKILPPGGEA	GVTEIHGKCE	NMTITPRGTT	VTPTKETVSL	GKHTVALGEK	TEITGAMTMT	480
SVGHQSMTPG	EKALFPVGHQ	SVTTGQKILT	SVGYQSVTPG	EKTLTPVGHQ	SVTPVSHQSV	540
SPGGTMTFPV	HFQTETLRQN	TVAPRRKAVA	REKVTVPSPN	ISVTPEGQTM	PLRGENLTSE	600
VGTHPRMGNL	GLQMEAEENR	MLSSSPVIQL	PEQTPLAFDN	RFVPIYGNHS	SVNSVTPTQS	660
PLSLKKEIPE	NSAVDEEA					

Seq ID NO: 633 DNA sequence
 Nucleic Acid Accession #: NM_003885.1
 Coding sequence: 98..1021

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1	11	21	31	41	51	
AAACTCAGAA	TTTTCGCGGG	CTCGGTGAGC	GGTTTTATCC	CTCGCGCCGG	CAGGCTGGGC	60
GCAGGGGGCG	AGCCCCCGCC	CGGCGCGCAG	CAGCACCATG	GGCACGGTGC	TGTCCCTGTC	120
TCCCAGCTAC	CGGAAGGCCA	CGCTGTTTGA	GGATGGCGCG	GCCACCGTGG	GCCACTATAC	180
GGCGGTACAG	AACAGCAAGA	ACGCCAAGGA	CAAGAACCTG	AAGCGCCACT	CCATCATCTC	240
CGTGCTGCTT	TGGAAGAGAA	TCGTGGCCGT	GTGCGCCAAG	AAGAAGAAGT	CCAGAAGGT	300
GCAGCCTAAC	AGCAGCTACC	AGAACAACAT	CACGCACCTC	AACAATGAGA	ACCTGAAGAA	360
TGCGCTGTGG	TGCGCCAACC	TGTCCACATT	CGCCCAGCCC	CCACCGGCC	AGCCGCTGTC	420
ACCCCGCGCC	AGCCAGCTCT	CGGGTTCCCA	GACCGGGGGC	TCTCTCTCAG	TCAAGAAAGC	480
CCCTCACCTT	GCCGTACCTT	CCGCAGGGAC	GCCCAACCGG	GTCATCGTCC	AGGCGTCCAC	540
CAGTGAGCTG	CTTCGCTGCC	TGGGTGAGTT	TCTCTGCCGC	CGGTGCTACC	GCCTGAAGCA	600
CCTGTCCCCC	ACGGACCCCG	TGCTCTGGCT	GCGCAGCGTG	GACCGCTCGC	TGCTCTGCA	660
GGGCTGGCAG	GACCAAGGCT	TCATCACGCC	GGCCAACGTC	GTCTTCTCTT	ACATGCTCTG	720
CAGGGATGTT	ATCTCCTCCG	AGGTGGGCTC	GGATCACGAG	CTCCAGGCGG	TCCTGCTGAC	780
ATGCCCTGTAC	CTCTCTACTT	CCTACATGGG	CAACGAGATC	TCCTACCCCG	TCAAGCCCTT	840
CCTGGTGAGG	AGCTGCAAGG	AGGCCCTTTG	GGACCGTTGC	CTCTCTGTCA	TCAACCTCAT	900
GAGCTCAAGG	ATGCTGCAGA	TAAATGCCGA	CCCACTACTC	TTCACACAGG	TCTTCTCCGA	960
CCTGAAGAAC	GAGAGCGGCC	AGGAGGACAA	GAGCGGCTC	CTCCTAGGCC	TGGATCGGTG	1020
AGCACTGTAG	CCTGCGTCAT	GGCTCAAGGA	TTCAATGCAT	TTTTAAGAA	TTATTATTAA	1080
ATCAGTTTGG	TGTACAG					

Seq ID NO: 634 Protein sequence
 Protein Accession #: NP_003876.1

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1	11	21	31	41	51	
MGTVLSLSPS	YRKATLFEDG	AATVGHYTA	QNSKNADKN	LKRHSIIISVL	PWKRIIVAVSA	60
KKNSKKVQP	NSSYQNNITH	LNNENLKKS	SCANLSTFAQ	PPPAQPPAPP	ASQLSGSQTG	120
GSSSVKKAPH	PAVTSAGTPK	RVIVQASTSE	LLRCLGEFLC	RRCYRLKHL	PTDPVLWLR	180
VDRSLLQGW	QDQGFITPAN	VVFLYMLCRD	VISSEVGSDE	BLQAVLLTCL	YLSYSYMGNE	240
ISYPLKPLV	ESCKEAFWDR	CLSVINLMSS	KMLQINADPH	YFTQVPSDLK	NESGQEDKGR	300
LLGLDR						

TABLE 79A:

5	Pkey:	Unique Eos probeset identifier number			
	ExAccn:	Exemplar Accession number, Genbank accession number			
	UnigenelD:	Unigene number			
	Unigene Title:	Unigene gene title			
	Seq ID No.:	Sequence identification number linking information in Table 79A to sequences in Table 80			
10	Pkey	ExAccn	UnigenelD	Unigene Title	Seq ID No.
	424212	NM_005814	Hs.143131	glycoprotein A33 (transmembrane)	Seq ID No. C1 & C217
	424503	NM_002205	Hs.149609	Integrin, alpha 5 (fibronectin receptor,	Seq ID No. C2 & C218
15	418007	M13509	Hs.83169	matrix metalloproteinase 1 (interstitial	Seq ID No. C3 & C219
	418007	M13509	Hs.83169	matrix metalloproteinase 1 (interstitial	Seq ID No. C4 & C220
	418738	AW388633	Hs.6682	solute carrier family 7, (cationic amino	Seq ID No. C5 & C221
	443646	AI085198	Hs.164226	Thrombospondin 1	Seq ID No. C6 & C222
	409956	AW103364	Hs.727	inhibin, beta A (activin A, activin AB a	Seq ID No. C7 & C223
	422867	L32137	Hs.1584	cartilage oligomeric matrix protein (pse	Seq ID No. C8 & C224
20	444381	BE387335	Hs.283713	hypothetical protein BC014245	Seq ID No. C9 & C225
	421582	AI910275	Hs.350470	trefol factor 1 (breast cancer, estroge	Seq ID No. C10 & C226
	411789	AF245505	Hs.72157	Adlcan	Seq ID No. C11 & C227
	452281	T93500	Hs.28792	Homo sapiens cDNA FLJ11041 fis, clone PL	Seq ID No. C12
	428698	AA852773	Hs.234838	KIAA1866 protein	Seq ID No. C13 & C228
25	421552	AF026892	Hs.105700	secreted frizzled-related protein 4	Seq ID No. C14 & C229
	425247	NM_006940	Hs.155324	matrix metalloproteinase 11 (stromelysin	Seq ID No. C15 & C230
	432201	AI538613	Hs.298241	Transmembrane protease, serine 3	Seq ID No. C16 & C231
	447377	X77343	Hs.334334	transcription factor AP-2 alpha	Seq ID No. C17 & C232
	446921	AB012113	Hs.16530	small inducible cytokine subfamily A (Cy	Seq ID No. C18 & C233
30	418888	AU076801	Hs.89436	cadherin 17, LI cadherin (liver-intestin	Seq ID No. C19 & C234
	432179	X75208	Hs.2913	EphB3	Seq ID No. C20 & C235
	422578	AF239666	Hs.1545	caudal type homeo box transcription fact	Seq ID No. C21 & C236
	409889	AW630041	Hs.56937	suppression of tumorigenicity 14 (colon	Seq ID No. C22 & C237
	447033	AI357412	Hs.157601	Predicted gene: Eos cloned; secreted w/v	Seq ID No. C23 & C238
35	447033	AI357412	Hs.157601	Predicted gene: Eos cloned; secreted w/v	Seq ID No. C24 & C239
	411975	AI916058	Hs.144583	3'UTR of: dead ringer (Drosophila)-like	Seq ID No. C25 & C240
	434206	AW136973	Hs.362915	ESTs, Weakly similar to S69890 mitogen i	Seq ID No. C26 & C241
	423936	U77629	Hs.135639	achaete-scute complex (Drosophila) homol	Seq ID No. C27 & C242
	447400	AK000322	Hs.18457	hypothetical protein FLJ20315	Seq ID No. C28 & C243
40	449032	AA045573	Hs.22900	nuclear factor (erythroid-derived 2)-lik	Seq ID No. C29 & C244
	415214	AI445236	Hs.125124	EphB2	Seq ID No. C30 & C245
	443247	BE614387	Hs.333893	c-Myc target JPO1	Seq ID No. C31 & C246
	422048	NM_012445	Hs.288126	spondin 2, extracellular matrix protein	Seq ID No. C32 & C247
	410418	D31382	Hs.63325	transmembrane protease, serine 4	Seq ID No. C33 & C248
45	446342	BE298665	Hs.14846	solute carrier family 7 (cationic amino	Seq ID No. C34 & C249
	411274	NM_002776	Hs.69423	kalikrein 10	Seq ID No. C35 & C250
	104978	AI199268	Hs.19322	Homo sapiens, Similar to RIKEN cDNA 2010	Seq ID No. C36 & C251
	422260	AA315993	Hs.105484	regenerating gene type IV	Seq ID No. C37 & C252
50	409041	AB033025	Hs.50081	Hypothetical protein, XP_051860 (KIAA119	Seq ID No. C38 & C253
	420344	BE463721	Hs.97101	putative G protein-coupled receptor	Seq ID No. C39 & C254
	422163	AF027208	Hs.112360	prontinin (mouse)-like 1	Seq ID No. C40 & C255
	437935	AW939591	Hs.5940	mucin 13, epithelial transmembrane	Seq ID No. C41 & C256
	422330	D30783	Hs.115263	epiregulin	Seq ID No. C42 & C257
	408908	BE298227	Hs.250822	serine/threonine kinase 15	Seq ID No. C43 & C258
55	407811	AW190902	Hs.40099	cysteine knot superfamily 1, BMP antagon	Seq ID No. C44 & C259
	437852	BE001836	Hs.256897	putative GPCR	Seq ID No. C45 & C260
	408243	Y00787	Hs.624	interleukin 8	Seq ID No. C46 & C261
	426088	AF038007	Hs.166196	ATPase, Class I, type 8B, member 1	Seq ID No. C47 & C262
60	439738	BE246502	Hs.9598	sema domain, immunoglobulin domain (Ig),	Seq ID No. C48 & C263
	419741	NM_007019	Hs.93002	ubiquitin carrier protein E2-C	Seq ID No. C49 & C264
	450983	AA305384	Hs.25740	ERO1 (S. cerevisiae)-like	Seq ID No. C50 & C265
	417771	AA804698	Hs.82547	retinoic acid receptor responder (Iazaro	Seq ID No. C51 & C266
	421379	Y15221	Hs.103982	small inducible cytokine subfamily B (Cy	Seq ID No. C52 & C267
65	442006	AW975183	Hs.372210	ESTs, Weakly similar to S72482 hypotheti	Seq ID No. C53 & C268
	413048	M93221	Hs.75182	mannose receptor, C type 1	Seq ID No. C54 & C269
	443324	R44013	Hs.164225	ESTs	Seq ID No. C55 & C270
	424917	AI636208	Hs.96901	hypothetical protein FLJ23049	Seq ID No. C56 & C271
	424917	AI636208	Hs.96901	hypothetical protein FLJ23049	Seq ID No. C57 & C272
70	444527	NM_005408	Hs.11383	small inducible cytokine subfamily A (Cy	Seq ID No. C58 & C273
	442652	AI005163	Hs.201378	Homo sapiens cDNA FLJ40427 fis	Seq ID No. C59 & C274
	450726	AW204600	Hs.355462	HUMPSFPBA Human pulmonary surfactant-asso	Seq ID No. C60 & C275
	416965	N26223	Hs.160436	MDAC1	Seq ID No. C61 & C276
	442275	AW449467	Hs.54795	Homo sapiens secretoglobulin, family 3A, m	Seq ID No. C62 & C277
75	431745	AW972448	Hs.163425	Novel FGENSEH predicted cadherin repeat	Seq ID No. C63 & C278
	431745	AW972448	Hs.163425	Novel FGENSEH predicted cadherin repeat	Seq ID No. C64 & C279
	453142	AA033648	Hs.7473	Homo sapiens gap junction protein, alpha	Seq ID No. C65 & C280
	421659	NM_014459	Hs.106511	protocadherin 17	Seq ID No. C66 & C281
	444090	S69115	Hs.10306	natural killer cell group 7 sequence	Seq ID No. C67 & C282
80	421563	NM_006433	Hs.105806	granulysin	Seq ID No. C68 & C283
	430413	AW842182	Hs.241392	small inducible cytokine A5 (RANTES)	Seq ID No. C69 & C284
	414991	C17898		Homo sapiens up-regulated by BCG-CWS (LO	Seq ID No. C70 & C285
	419833	AA251131	Hs.220697	Homo sapiens tryptophanyl-tRNA synthetas	Seq ID No. C71 & C286
	424943	AU077260	Hs.153924	death-associated protein kinase 1	Seq ID No. C72 & C287

5	430890	X54232	Hs.2699	glypican 1	Seq ID No. C73 & C288
	452401	NM_007115	Hs.29352	tumor necrosis factor, alpha-induced pro	Seq ID No. C74 & C289
	439180	A1393742	Hs.199057	v-erb-b2 avian erythroblastic leukemia v	Seq ID No. C75 & C290
	410407	X66839	Hs.63287	carbonic anhydrase IX	Seq ID No. C76 & C291
	418526	BE019020	Hs.85838	solute carrier family 16 (monocarboxylic	Seq ID No. C77 & C292
	422627	BE336857	Hs.118787	transforming growth factor, beta-induced	Seq ID No. C78 & C293
	430486	BE062109	Hs.241551	chloride channel, calcium activated, fam	Seq ID No. C79 & C294
	423673	BE003054	Hs.1695	matrix metalloproteinase 12 (macrophage	Seq ID No. C80 & C295
10	423673	BE003054	Hs.1695	matrix metalloproteinase 12 (macrophage	Seq ID No. C81 & C296
	431846	BE019924	Hs.271580	uroplakin 1B	Seq ID No. C82 & C297
	431958	X63629	Hs.2877	cadherin 3, type 1, P-cadherin (placenta	Seq ID No. C83 & C298
	448733	NM_005629	Hs.187958	solute carrier family 6 (neurotransmitte	Seq ID No. C84 & C299
	426440	BE382756	Hs.169902	solute carrier family 2 (facilitated glu	Seq ID No. C85 & C300
	428484	AF104032	Hs.184601	solute carrier family 7 (cationic amino	Seq ID No. C86 & C301
15	429211	AF052693	Hs.198249	gap junction protein, beta 5 (connexin 3	Seq ID No. C87 & C302
	423634	AW959908	Hs.1690	heparin-binding growth factor binding pr	Seq ID No. C88 & C303
	457819	AA057484	Hs.35406	FLJ20522 Hypothetical protein FLJ20522	Seq ID No. C89 & C304
	424687	J05070	Hs.151738	matrix metalloproteinase 9 (gelatinase B	Seq ID No. C90 & C305
	418462	BE001596	Hs.85266	integrin, beta 4	Seq ID No. C91 & C306
20	439606	W79123	Hs.58561	G protein-coupled receptor 87	Seq ID No. C92 & C307
	407720	AB037776	Hs.38002	immunoglobulin superfamily, member 9	Seq ID No. C93 & C308
	418543	NM_005329	Hs.85962	hyaluronan synthase 3	Seq ID No. C94 & C309
	417512	X76534	Hs.82226	glycoprotein (transmembrane) nmb	Seq ID No. C95 & C310
25	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C96 & C311
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C97 & C312
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C98 & C313
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C99 & C314
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C100 & C315
30	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C101 & C316
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C102 & C317
	415817	U88967	Hs.78867	protein tyrosine phosphatase, receptor-t	Seq ID No. C103 & C318
	421817	AF146074	Hs.108660	ATP-binding cassette, sub-family C (CFTR	Seq ID No. C104 & C319
	421817	AF146074	Hs.108660	ATP-binding cassette, sub-family C (CFTR	Seq ID No. C105 & C320
35	409420	Z15008	Hs.54451	laminin, gamma 2 (nicotin (100kD), kafini	Seq ID No. C106 & C321
	440659	AF134160	Hs.7327	claudin 1	Seq ID No. C107 & C322
	408790	AW580227	Hs.47860	neurotrophic tyrosine kinase, receptor,	Seq ID No. C108 & C323
	408790	AW580227	Hs.47860	neurotrophic tyrosine kinase, receptor,	Seq ID No. C109 & C324
	408790	AW580227	Hs.47860	neurotrophic tyrosine kinase, receptor,	Seq ID No. C110 & C325
40	450701	H39960	Hs.288467	hypothetical protein XP_098151 (leucine-	Seq ID No. C111 & C326
	414774	X02419	Hs.77274	plasminogen activator, urokinase	Seq ID No. C112 & C327
	413691	AB023173	Hs.75478	ATPase, Class VI, type 11B	Seq ID No. C113 & C328
	453857	AL080235	Hs.35861	Ras-induced senescence 1 (RIS1)	Seq ID No. C114 & C329
45	449101	AA205847	Hs.23016	G protein-coupled receptor	Seq ID No. C115 & C330
	429263	AA019004	Hs.198396	ATP-binding cassette, sub-family A (ABC1	Seq ID No. C116 & C331
	421474	U76362	Hs.104637	solute carrier family 1 (glutamate trans	Seq ID No. C117 & C332
	421753	BE314828	Hs.107911	ATP-binding cassette, sub-family B (MDR/	Seq ID No. C118 & C333
	408482	NM_000676	Hs.45743	adenosine A2b receptor	Seq ID No. C119 & C334
50	426761	AJ015709	Hs.172089	PORIMIN Pro-oncosis receptor inducing me	Seq ID No. C120 & C335
	429736	AF125304	Hs.212680	tumor necrosis factor receptor superfam	Seq ID No. C121 & C336
	430985	AA490232	Hs.27323	ESTs, Weakly similar to I78885 serine/th	Seq ID No. C122 & C337
	431890	X17033	Hs.271986	Integrin, alpha 2 (CD49B, alpha 2 subuni	Seq ID No. C123 & C338
	432583	AW023624	Hs.162282	potassium channel TASK-4; potassium chan	Seq ID No. C124 & C339
55	446872	X97058	Hs.16362	pyrimidinergic receptor P2Y, G-protein c	Seq ID No. C125 & C340
	453102	NM_007197	Hs.31664	frizzled (Drosophila) homolog 10	Seq ID No. C126 & C341
	428513	BE220806	Hs.184697	plexin C1	Seq ID No. C127 & C342
	430280	AA361258	Hs.237868	interleukin 7 receptor	Seq ID No. C128 & C343
	428486	AW583497	Hs.184604	pancreatic polypeptide	Seq ID No. C129 & C344
60	457489	AI693815	Hs.127179	cryptic gene	Seq ID No. C130 & C345
	432874	W94322	Hs.279651	melanoma inhibitory activity	Seq ID No. C131 & C346
	445891	AW391342	Hs.199460	DPCR1 protein	Seq ID No. C132 & C347
	445891	AW391342	Hs.199460	DPCR1 protein	Seq ID No. C133 & C348
	404682			ortholog of mouse polydomain protein	Seq ID No. C134 & C349
65	429547	AW009166	Hs.99376	FGENESH predicted novel secreted protein	Seq ID No. C135 & C350
	404287			FGENESH predicted novel CUB-domain conta	Seq ID No. C136 & C351
	404287			FGENESH predicted novel CUB-domain conta	Seq ID No. C137 & C352
	404287			FGENESH predicted novel CUB-domain conta	Seq ID No. C138 & C353
70	418318	U47732	Hs.84072	transmembrane 4 superfamily member 3	Seq ID No. C139 & C354
	444754	T83911	Hs.11881	transmembrane 4 superfamily member 4	Seq ID No. C140 & C355
	432596	AJ224741	Hs.278461	matrilin 3	Seq ID No. C141 & C356
	444006	BE395085	Hs.334762	type I transmembrane protein Fn14	Seq ID No. C142 & C357
	428505	AL035461	Hs.2281	chromogranin B (secretogranin 1)	Seq ID No. C143 & C358
	448844	AI581519	Hs.177164	FGENESH predicted novel cell surface pr	Seq ID No. C144 & C359
	448844	AI581519	Hs.177164	FGENESH predicted novel cell surface pr	Seq ID No. C145 & C360
75	428392	H10233	Hs.2265	secretory granule, neuroendocrine protei	Seq ID No. C146 & C361
	448030	N30714	Hs.325960	membrane-spanning 4-domains, subfamily A	Seq ID No. C147 & C362
	422109	S73265	Hs.1473	gastrin-releasing peptide	Seq ID No. C148 & C363
	449048	Z45051	Hs.22920	similar to S68401 (cattle) glucose induc	Seq ID No. C149 & C364
	417931	W95642	Hs.82961	trefoil factor 3 (intestinal)	Seq ID No. C150 & C365
80	419216	AU076718	Hs.164021	small inducible cytokine subfamily B (Cy	Seq ID No. C151 & C366
	426227	U67058	Hs.154299	Human proteinase activated receptor-2 mR	Seq ID No. C152 & C367
	413554	AA319146	Hs.75426	secretogranin II (chromogranin C)	Seq ID No. C153 & C368
	445417	AK001058	Hs.12680	a disintegrin-like and metalloprotease w	Seq ID No. C154 & C369
	426322	J05068	Hs.2012	transcobalamin I (vitamin B12 binding pr	Seq ID No. C155 & C370

5	413719	BE439580	Hs.75498	small inducible cytokine subfamily A (Cy	Seq ID No. C156 & C371
	431462	AW583672	Hs.256311	granin-like neuroendocrine peptide precu	Seq ID No. C157 & C372
	416498	U33632	Hs.79351	potassium channel, subfamily K, member 1	Seq ID No. C158 & C373
	413095	AA494359	Hs.30715	potassium voltage-gated channel, Isk-rel	Seq ID No. C159 & C374
	426125	X87241	Hs.166994	FAT tumor suppressor (Drosophila) homolog	Seq ID No. C160 & C375
	436729	BE621807	Hs.351316	transmembrane 4 superfamily member 1	Seq ID No. C161 & C376
	437145	AF007216	Hs.5462	solute carrier family 4, sodium bicarbon	Seq ID No. C162 & C377
	451820	AW058357	Hs.199248	ESTs	Seq ID No. C163 & C378
10	427557	NM_002659	Hs.179657	plasminogen activator, urokinase recepto	Seq ID No. C164 & C379
	408308	AL033377	Hs.44197	hypothetical protein DKFZp564D0462	Seq ID No. C165 & C380
	421340	F07783	Hs.1369	decay accelerating factor for complement	Seq ID No. C166 & C381
	428187	AI687303	Hs.285529	G protein-coupled receptor 49	Seq ID No. C167 & C382
	428187	AI687303	Hs.285529	G protein-coupled receptor 49	Seq ID No. C168 & C383
15	422278	AF072873	Hs.114218	frizzled (Drosophila) homolog 6	Seq ID No. C169 & C384
	446619	AU076643	Hs.313	secreted phosphoprotein 1 (osteopontin,	Seq ID No. C170 & C385
	419452	U33635	Hs.90572	PTK7 protein tyrosine kinase 7	Seq ID No. C171 & C386
	428242	H55709	Hs.2250	leukemia inhibitory factor (cholinergic	Seq ID No. C172 & C387
	439659	AW970780	Hs.59483	leucine-rich repeat-containing G protein	Seq ID No. C173 & C388
20	411825	AK000334	Hs.352415	solute carrier family 39 (zinc transport	Seq ID No. C174 & C389
	412314	AA825247	Hs.356084	G protein-coupled receptor 27 (GPR27) (S	Seq ID No. C175 & C390
	429150	AF120103	Hs.197366	smoothed (Drosophila) homolog	Seq ID No. C176 & C391
	419073	AW372170	Hs.183918	transmembrane receptor Unc5H2 mRNA	Seq ID No. C177 & C392
	411828	AW161449	Hs.72290	wingless-type MMTV integration site fami	Seq ID No. C178 & C393
25	419508	AW997938	Hs.90786	ATP-binding cassette, sub-family C (CFTR	Seq ID No. C179 & C394
	421779	AI879159	Hs.108219	wingless-type MMTV integration site fami	Seq ID No. C180 & C395
	439668	AI091277	Hs.302634	frizzled (Drosophila) homolog 8	Seq ID No. C181 & C396
	433336	AF017986	Hs.31386	secreted frizzled-related protein 2 (str	Seq ID No. C182 & C397
	436972	AA284679	Hs.25640	claudin 3	Seq ID No. C183 & C398
30	410268	AA316181	Hs.61635	six transmembrane epithelial antigen of	Seq ID No. C184 & C399
	416370	N90470	Hs.203697	CD38 antigen (p45)	Seq ID No. C185 & C400
	437052	AA861697	Hs.120591	ESTs	Seq ID No. C186 & C401
	421481	AW391972	Hs.104696	KIAA1324 protein	Seq ID No. C187 & C402
	444151	AW972917	Hs.128749	alpha-methylacyl-CoA racemase	Seq ID No. C188 & C403
35	426174	AA547959	Hs.115838	Homo sapiens similar to Echinoidin (LOC1	Seq ID No. C189 & C404
	410037	AB020725	Hs.58009	KIAA0918 protein	Seq ID No. C190 & C405
	425071	NM_013989	Hs.154424	deiodinase, iodothyronine, type II	Seq ID No. C191 & C406
	421829	AB018330	Hs.108708	calcium/calmodulin-dependent protein kin	Seq ID No. C192 & C407
	418576	AW968159	Hs.302740	Epithelial calcium channel 2, CaT-like A	Seq ID No. C193 & C408
40	419693	AA133749	Hs.301350	FXRD domain-containing ion transport reg	Seq ID No. C194 & C409
	419693	AA133749	Hs.301350	FXRD domain-containing ion transport reg	Seq ID No. C195 & C410
	448988	Y09763	Hs.22785	gamma-aminobutyric acid (GABA) A recepto	Seq ID No. C196 & C411
	448988	Y09763	Hs.22785	gamma-aminobutyric acid (GABA) A recepto	Seq ID No. C197 & C412
	448988	Y09763	Hs.22785	gamma-aminobutyric acid (GABA) A recepto	Seq ID No. C198 & C413
45	448988	Y09763	Hs.22785	gamma-aminobutyric acid (GABA) A recepto	Seq ID No. C199 & C414
	430144	AI732722	Hs.98927	ERGL protein; ERGIC-53-like protein	Seq ID No. C200 & C415
	408833	AW612232	Hs.254835	ESTs	Seq ID No. C201 & C416
	452017	AF109302	Hs.27495	prostate cancer associated protein 7	Seq ID No. C202 & C417
	415992	C05837	Hs.145807	hypothetical protein FLJ13593	Seq ID No. C203 & C418
	415992	C05837	Hs.145807	hypothetical protein FLJ13593	Seq ID No. C204 & C419
50	443991	NM_002250	Hs.10082	potassium intermediate/small conductance	Seq ID No. C205 & C420
	425976	C75094	Hs.334514	NG22 protein	Seq ID No. C206 & C421
	432600	BE391046	Hs.278962	AIM-1 protein	Seq ID No. C207 & C422
	452955	AW390282	Hs.31130	transmembrane 7 superfamily member 2	Seq ID No. C208 & C423
55	424339	BE257148	Hs.145416	endoglycan	Seq ID No. C209 & C424
	425263	NM_001197	Hs.155419	BCL2-interacting killer (apoptosis-induc	Seq ID No. C210 & C425
	421537	BE383488	Hs.105547	neural proliferation, differentiation an	Seq ID No. C211 & C426
	434293	NM_004445	Hs.3796	EphB6	Seq ID No. C212 & C427
	427715	BE245274	Hs.180428	KIAA1181 protein	Seq ID No. C213 & C428
60	413049	NM_002151	Hs.823	hepsin (transmembrane protease, serine 1	Seq ID No. C214 & C429
	414555	N98569	Hs.76422	phospholipase A2, group IIA (platelets,	Seq ID No. C215 & C430
	422424	AI186431	Hs.295638	prostate differentiation factor	Seq ID No. C216 & C431
	432378	AI493046	Hs.146133	ESTs	Seq ID No. C432 & C433
	409041	AB033025	Hs.50081	Hypothetical protein, XP_051860 (KIAA119	Seq ID No. C434 & C435

TABLE 798

Pkey: Unique Eos probeset identifier number
CAT number: Gene cluster number
Accession: Genbank accession numbers

Pkey	CAT Number	Accession
414991	1785136_1	D78831 C17898 D78863

TABLE 79C

Pkey: Unique number corresponding to an Eos probeset
Ref: Sequence source. The 7 digit numbers in this column are Genbank Identifier (GI) numbers. "Dunham I. et al." refers to the publication entitled "The DNA sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:469-495.
Strand: Indicates DNA strand from which exons were predicted.
NL_position: Indicates nucleotide positions of predicted exons.

Pkey	Ref	Strand	NL_position
------	-----	--------	-------------

5 404682 9797231 Minus 40977-41150
 404287 2326514 Plus 53134-53281
 404287 2326514 Plus 53134-53281
 404287 2326514 Plus 53134-53281

Table 80:

Seq ID NO: C1 DNA Sequence
Nucleic Acid Accession #: NM_005814
Coding sequence: 345..1304

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5	CTACCCCTTT	GTGAGCAGTC	TAGGACTTTG	TACACCTGTT	AAGTAGGGAG	AAGGCAGGGG	60
10	AGGTGGCTGG	TTTAAGGGGA	ACTTGAGGGA	AGTAGGGAAG	ACTCCTCTTG	GGACCTTTGG	120
	AGTAGGTGAC	ACATGAGCCC	AGCCCCAGCT	CACCTGCCAA	TCCAGCTGAG	GAGCTCACCT	180
	GCCAAATCCAG	CTGAGGCTGG	GCAGAGGTGG	GTGAGAGAGG	GGAAAATTGC	AGGGACCTCC	240
	AGTTGGGCCA	GGCCAGAAGC	TGCTGTAGCT	TTAACCAGAC	AGCTCAGACC	TGCTCGGAGG	300
15	CTGCCAGTGA	CAGGTTAGGT	TTAGGGCAGA	GAAGAAGCAA	GACCATGGTG	GGGAAGATGT	360
	GGCTGTGTT	GTGGACACTC	TGTGCAGTCA	GGGTGACCGT	CGATGCCATC	TCTGTGGAAA	420
	CTCCGCAAGG	CGTTCTTCGG	GCTTCGCAGG	GAAAGAGTGT	CACCTGCCCC	TGCACCTACC	480
	ACACTTCCAC	CTCCAGTCCG	GAGGGACTTA	TTCAATGGGA	TAAGCTCCTC	CTCACTCATA	540
	CGGAAAGGGT	GGTCACTCGG	CCGTTTTCAA	ACAAAACTA	CATCCATGGT	GAGCTTTATA	600
20	AGAATCGCGT	CAGCATATCC	AACAATGCTG	AGCAGTCCGA	TGCCTCCATC	ACCATTGATC	660
	AGCTGACCAT	GGCTGACAAC	GGCACCTACG	AGTGTCTCTG	CTCGCTGATG	TCAGACCTGG	720
	AGGGCAACAG	CAAGTCACGT	GTCCGCTCTG	TGGTCCCTGT	GCCACCTCCG	AAACCAGAAAT	780
	GCGGCATCGA	GGGAGAGACC	ATAATTGGGA	ACAACATCCA	GCTGACCTGC	CAATCAAAGG	840
	AGGGCTCACC	AACCCCTCAG	TACAGCTGGA	AGAGGTACAA	CATCCTGAAT	CAGGAGCAGC	900
25	CCCTGGCCCA	GCCAGCCTCA	GGTCAGCCTG	TCTCCCTGAA	GAATATCTCC	ACAGACACAT	960
	CGGGTTACTA	CATCTGTACC	TCCAGCAATG	AGGAGGGGAC	GCAGTTCTGC	AACATCACGG	1020
	TGGCCGTGAG	ATCTCCCTCC	ATGAACGTGG	CCCTGTATGT	GGGCATCGCG	GTGGGCGTGG	1080
	TTGCAGCCCT	CATTATCATT	GGCATCATCA	TCTACTGCTG	CTGCTGCCGA	GGGAAGGACG	1140
	ACAACTACTG	AGACAAGGAG	GATGCAAGGC	CGAACCCGGA	AGCCTATGAG	GAGCCACCAG	1200
30	AGCAGCTAAG	AGAACTTTCC	AGAGAGAGGG	AGGAGGAGGA	TGACTACAGG	CAAGAAGAGC	1260
	AGAGGAGCAC	TGGGCGTGAA	TCCCCGAGCC	ACCTCGACCA	GTGACAGGCC	AGCAGCAGAG	1320
	GGCGGCGGAG	GAAGGGTTAG	GGGTTTATT	TCCCGCTTCC	TGGCCTCCCT	TCTCCTTTCT	1380
	AAGCCCTGTT	CTCCTGTCCC	TCCATCCGAG	ACATGTATGG	GGACATTTCT	TCCCAGTGT	1440
	CAGCTGTGGG	GAACATGGCT	GGCCTGGTAA	GGGGTCCCT	GTGCTGATCC	TGCTGACCTC	1500
35	ACTGTCTGTT	GAAGTAACCC	CTCCTGGCTG	TGACACCTGG	TGCGGGCCTG	GCCCTCACTC	1560
	AAGACCAGGC	TGCAGCTCCC	ACTTCCCTCG	TAGTTGGCAG	GAGCTCTGCG	AAGCACAGCG	1620
	CTGAGCATAC	GGCGCTCCCA	CTCAGAACTC	TCCAGGGAGG	CGATGCCAGC	CTTGGGGGGT	1680
	GGGGGCTGTC	CTGCTCAACT	GTGTGCCGAG	CACCTGGAGG	GGCACCAGGT	GGAGGGTTTG	1740
	CACCTCCACAC	ATCTTTCTTG	AATGAATGAA	AGAATAAGTG	AGTATGCTTG	GGCCCTGCAT	1800
40	TGGCCTGGCC	TCCAGCTCCC	ACTCCCTTTC	CAACCTCACT	TCCCGTAGCT	GCCAGTATGT	1860
	TCCAAACCTT	CTCGGGAAGG	CCACCTCCCA	CTCCTGTGTC	ACAGGCCCTG	GGGAGCTTTT	1920
	GCCCAACAC	TTTCCATCTC	TGCTGTCTCA	TATCGTACCT	GTCCCTCCAG	GCCCATCTCA	1980
	AATCACAAGG	ATTCTCTCAA	CCCTATCCTA	ATTGTCCACA	TACGTGGAAA	CAATCCTGTT	2040
	ACTCTGTAGC	ACGTCCAATC	ATGGGCCACA	AGGCACAGTC	TTCTGAGCGA	GTGCTCTCAC	2100
45	TGTATTAGAG	CGCCAGCTCC	TGGGGGCAGG	GCCTGGGCCCT	CATGGCTTTT	GCTTTCCCTG	2160
	AAGCCCTAGT	AGCTGGCGCC	CATCCTAGTG	GGCAGTTAAG	CTTAATTGGG	GAACCTGCTT	2220
	TGATTGGTTG	TGCCTTCCCT	TCTCTGTCT	CCTTGAGATG	ATCGTAGACA	CAGGGATGAT	2280
	TCCACCCCAA	ACCCAGGTAT	TCATTCAAGT	AGTTAAACAC	GAATTGATTT	AAAGTGAACA	2340
	CACACAAGGG	AGCTTGCTTG	CAGATGGTCT	GAGTTCCTGT	GTCTGTGTA	TTCTCTCCCA	2400
50	GGCCAGAATA	ATTGGCATGT	CTCCTCAACC	CACATGGGGT	TCTGTGTGTT	TCTGTGATCC	2460
	CGATACTCTA	GGCTTGCGCC	TGCCAGAGCC	ATTGGGGCTC	TGGTTTCTG	GTGGGGCTGT	2520
	CCTGTGCGCC	TCCACAGCGC	TCCCTCTGTT	TGTGAGCAT	TTCTTCTACT	CTTGAGAGCT	2580
	CAGGAGCGGT	TAGGGCTGCT	TAGGTCTCAT	GGACCAATGG	CTGGTCTCAC	CCAACCTGAG	2640
	TTTACTATTG	CTATCTTTTC	TGGATGATCA	GAATAATAAT	TCCATAAATC	TATTGTCTAC	2700
55	TGCGGATTTT	TTAAAAAATG	TATATTTTGA	TATATATTGT	TAAATCCCTT	GCTTCATTCC	2760
	AAATGCTTTT	AGTAATAATA	AAATGTGGGG	TGG			2793

Seq ID NO: C2 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..3150

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65	CGCCGACCCC	CGCTSSSTGCC	GCTGCTGTTG	CTGCTSSSTG	CGCCGCCACC	CAGGGTCGGG	120
	GGCTTGAACT	TAGACGCGGA	GGCCCCAGCA	GTAAGTCTCG	GGCCCCCGGG	CTCCTTCTTC	180
	GGATTCTCAG	TGGAGTTTGA	CGGGCCGGGA	ACAGACGGGG	TCAAGTGTCT	GGTGGGAGCA	240
	CCCAAGGCTA	ATACCAGCCA	GCCAGGAGTG	CTGCAGGGTG	GTGCTGTCTA	CCTCTGTCTC	300
	TGGGGTGCCA	GCCCCACACA	GTGCACCCCC	ATTGAATTGG	ACAGCAAGGG	CTCTCGGCTC	360
70	CTGGAGTCTT	CAGTGTCCAG	CTCAGAGGGA	GAGGAGCCTG	TGGAGTACAA	GTCTTTCAG	420
	TGGTTGCGGG	CAACAGTTGG	AGCCCATGGC	TCTCCATCT	TGGCATGCGC	TCCACTGTAC	480
	AGCTGGGCGA	CAGAGAAGGA	GCCACTGAGC	GACCCCGTGG	GCACCTGCTA	CCTCTCCACA	540
	GATAACTTCA	CCCGAATTCT	GGAGTATGCA	CCCTGCCGCT	CAGATTTCAG	CTGGGCAGCA	600
	GGACAGGGTT	ACTGCCAAGG	AGGCTTCAGT	GCGGAGTTCA	CCAAGACTGG	CGGTGTGGTT	660
75	TTAGGTGGAC	CAGGAAGCTA	TTTCTGGCAA	GGCCAGATCC	TGTCTGCCAC	TCAGGAGCAG	720
	ATTGCAGAAAT	CTTATTACCC	CGAGTACCTG	ATCAACCTGG	TTCAAGGGGA	GCTGCAGACT	780
	CGCCAGGCCA	TTCCTATCTA	TGATGACAGC	TACCTAGGAT	ACTCTGTGGC	TGTTGGTGAA	840
	TTCAGTGGTG	ATGACACAGA	AGACTTTGTT	GCTGGTGTGC	CCAAAGGGAA	CCTCACTTAC	900
	GGCTATGTCA	CCATCCTTAA	TGGCTCAGAC	ATTGATCCCT	TCTACAATTT	CTCAGGGGAA	960
80	CAGATGCGCT	CCTACTTTGG	CTATGCAGTG	GCGGCCACAG	ACGTCAATGG	GGACGGGCTG	1020
	GATGACTTGC	TGGTGGGGGC	ACCCCTGCTC	ATGGATCGGA	CCCTGACGGG	GCGGCTCAG	1080
	GAGGTGGGCA	GGGTCTACGT	CTACCTGCAG	CACCCAGCGG	GCATAGAGCC	CAGGCCACCC	1140
	CTTACCTTCA	CTGGCCTATG	TGAGTTTGGC	CGATTGGGCA	GCTCCTTGAC	CCCCCTGGGG	1200
	GACCTGGACC	AGGATGGCTA	CAATGATGTG	GCCATCGGGG	CTCCCTTTGG	TGGGGAGACC	1260
	CAGCAGGGAG	TAGTGTGTTG	ATTTCCTGGG	GGCCAGGAG	GGCTGGGCTC	TAAGCTTCC	1320

5
10
15
20
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30

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ATCTTCCCGG CCATGTTCAA CCCAGAGGAG CGSAGCTGCA GCTTAGAGGG GAACCCCTGTG 1560
GCCTGCATCA ACCTTAGCTT CTGCCCTCAAT GCTTCTGGAA AACACGTTGC TGACTCCATT 1620
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CTGTTCCTGG CTCCAGGCA GGCAACCTTG ACCAGACCC TGCTCATCCA GAATGGGGCT 1740
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CTCTCGCGGA TTCTCACTGC TCTCAACTTC TCCTTGGACC CCCAAGCCCC AGTGGACAGC 1860
CACGCGCTCA GGCCAGCCCT ACATTATCAG AGCAAGAGCC GGATAGAGGA CAAGGCTCAG 1920
ATCTTGCTGT ACTGTGGAGA AGACAACATC TGTGTGCTTG ACCTGCAGCT GGAAGTGTTT 1980
GGGGAGCAGA ACCATGTGTA CTGGGTGAC AAGAATGCC TGAACTCAC TTTCCATGCC 2040
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TGTGAGCTCG GGGCCCTGCA CCAACAAGAG AGCCAAAGTC TGCACTGCA TTTCCGAGTC 2820
TGGGCCAAGA CTTTCTTGCA GGGGAGCAC CAGCCATTTA GCCTGCAGTG TGAGGCTGTG 2880
TACAAAGCCC TGAAGATGCC CTACCGAATC CTGCCTCGGC AGCTGCCCCA AAAAGAGCGT 2940
CAGGTGGCCA CAGCTGTGCA ATGAGCAAGG GCAGAAGGCA GCTATGGCGT CCCACTGTGG 3000
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TACAAGCTTG GATTCTTCAA AGCTCCTCTC CCATATGGCA CGCCATGGA AAAAGCTCAG 3120
CTCAAGCCTC CAGCCACCTC TGATGCTGGA 3150

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Seq ID NO: C3 DNA Sequence

Nucleic Acid Accession #: NM_002421.2

Coding sequence: 1..1410

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1 11 21 31 41 51
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TACTACAACC TGAAGAATGA TGGGAGGCAA GTTGAAAAGC GGAGAAATAG TGGCCCAAGT 180
GTTGAAAAAT TGAAGCAAAAT GCAGGAATTC TTTGGGCTGA AAGTGACTGG GAAACCAGAT 240
GCTGAAACCC TGAAGGTGAT GAAGCAGCCC AGATGTGGAG TGCCCTGATG GGCTCAGTTT 300
GTCCCTCACTG AGGGGAACCC TCGCTGGGAG CAAACACATC TGACCTACAG GATTGAAAAAT 360
TACACGCCAG ATTTGCCAAG AGCAGATGTG GACCATGCCA TTGAGAAAGC CTTCCAACTC 420
TGGAGTAATG TCACACCTCT GACATTACCC AAGGTCTCTG AAGGTCAAGC AGACATCATG 480
ATATCTTTTG TCAGGGGAGA TCATCGGGAC AACTCTCCTT TTGATGGACC TGGAGGAAAT 540
CTTGCTCATG CTTTTCAACC AGGCCCAGGT ATTGGAGGGG ATGCTCATTT TGATGAAGAT 600
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ACCTTCAGTG GTGATGTTCA GCTAGCTCAG GATGACATTG ATGGCATCCA AGCCATATAT 780
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TTCTACATGC GCACAATACC CTTTACCCCG GAAGTTGAGC TCAATTTTCAT TTCTGTTTTC 960
TGCCCAACAC TGCCAAATAG GCTTGAAGCT GCTTACGAAT TTGCCAGAC AGATGAAGTC 1020
CGGTTTTTC AAGGGAATAA GTACTGGGCT GTTCAGGGAC AGAATGTGCT ACACGGATAC 1080
CCCAAGSACA TCTACAGCTC CTTTGGCTTC CCTAGAACTG TGAAGCATAT CGATGCTGCT 1140
CTTTCTGAGG AAAACACTGG AAAAACCTAC TTCTTTGTG CTAACAAATA CTGGAGGTAT 1200
GATGAATATA AACGATCTAT GGATCCAGGT TATCCCAAAA TGATAGCACA TGACTTTCTC 1260
GGAATTTGCC ACAAGTTTGA TGCACTTTTC ATGAAAGATG GATTTTCTA TTTCTTTCTA 1320
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AATAGCTGGT TCAACTGCAG GAAAAATTAG 1410

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Seq ID NO: C4 DNA Sequence

Nucleic Acid Accession #: Bos sequence

Coding sequence: 1..1410

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CCAGCGACTC TAGAAACACA AGAGCAAGAT GTGGACTTAG TCCAGAAATA CCTGGAAAAA 120
TACTACAACC TGAAGAATGA TGGGAGGCAA GTTGAAAAGC GGAGAAATAG TGGCCCAAGT 180
GTTGAAAAAT TGAAGCAAAAT GCAGGAATTC TTTGGGCTGA AAGTGACTGG GAAACCAGAT 240
GCTGAAACCC TGAAGGTGAT GAAGCAGCCC AGATGTGGAG TGCCCTGATG GGCTCAGTTT 300
GTCCCTCACTG AGGGGAACCC TCGCTGGGAG CAAACACATC TGACCTACAG GATTGAAAAAT 360
TACACGCCAG ATTTGCCAAG AGCAGATGTG GACCATGCCA TTGAGAAAGC CTTCCAACTC 420
TGGAGTAATG TCACACCTCT GACATTACCC AAGGTCTCTG AAGGTCAAGC AGACATCATG 480
ATATCTTTTG TCAGGGGAGA TCATCGGGAC AACTCTCCTT TTGATGGACC TGGAGGAAAT 540
CTTGCTCATG CTTTTCAACC AGGCCCAGGT ATTGGAGGGG ATGCTCATTT TGATGAAGAT 600
GAAAGGTGGA CCAACAATTT CAGAGAGTAC AACTTACATC GTGTTGCGGC TCATGCCCTC 660
GGCCATTCTC TTGGACTCTC CCATTCTACT GATATCGGGG CTTTGATGTA CCCTAGCTAC 720
ACCTTCAGTG GTGATGTTCA GCTAGCTCAG GATGACATTG ATGGCATCCA AGCCATATAT 780
GGACGTTCCC AAAATCCTGT CCAGCCCATC GGGCCACAAA CCCCAAAAGC ATGTGACAGT 840
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TTCTACATGC GCACAAATCC CTTCTACCCG GAAGTTGAGC TCAATTTTCAT TTCTGTTTTC 960
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CCCAAGGACA TCTACAGCTC CTTTGGCTTC CCTAGAAGCTG TGAAGCATAT CGATGCTGCT 1140
CTTTCTGAGG AAAACACTGG AAAAACCTAC TTCTTTGTTG CTAACAAATA CTGGAGGTAT 1200
GATGAATATA AACGATCTAT GGATCCAGGT TATCCCAAAA TGATAGCACA TGACTTTCTC 1260
GGAATTGGCC ACAAGTTGA TGCAGTTTTC ATGAAAGATG GATTTTCTTA TTTCTTTTCAT 1320
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AATAGCTGGT TCAACTGCAG GAAAAATTAG 1410

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Seq ID NO: C5 DNA Sequence
Nucleic Acid Accession #: NM_014331.2
Coding sequence: 1..1506

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GGAACTCTCA TCTCTCTTAA GGGCGTGCTC CAGAACACGG GCAGCGTGGG CATGTCTCTG 240
ACCATCTGGA CGGTGTGTGG GGTCTGTGCA CTATTTGGAG CTTTGTCTTA TGCTGAATTG 300
GGAACAACCTA TAAAGAAATC TGGAGGTGAT TACACATATA TTTTGGAAAG CTTTGGTCCA 360
TTACAGACTT TTGTACAGAT CTGGGTGGA CTCTCATATA TACGCCCTGC AGCTACTGCT 420
GTGATATCCC TGGCATTTGG ACGCTACATT CTGGAACCAT TTTTATTCCA ATGTGAAATC 480
CCTGAACCTG CGATCAAGCT CATTACAGCT GTGGGCATAA CTGTAGTGAT GGTCTTAAAT 540
AGCATGAGTG TCAGCTGGAG CGCCCGGATC CAGATTTTCT TAACCTTTTG CAAGCTCACA 600
GCAATTTCTGA TAAATTATAGT CCCTGGAGTT ATGCAGCTAA TTAAGGTCAA AACGCAGAAC 660
TTTAAAGACG CGTTTTACAG AAGAGATTCA AGTATTACGC GGTTCGCATC GGCTTTTTAT 720
TATGGAATGT TTGCGTATCG TGGCTGGTTT TACCTCAACT TTGTACTGTA AGAAGTAGAA 780
AACCCTGAAG AAACCATTTCC CTTTGAATA TGTATATCCA TGGCCATTGT CACCATTGGC 840
TATGTGCTGA CAAATGTGGC CTACCTTACG ACCATTAATG CTGAGGAGCT GCTGCTTTCA 900
AATGCACTGG CAGTGACCTT TTCTGAGCGG CTACTGGGAA ATTTCTCATT AGCAGTTCGG 960
ATCTTTGTTG CCTCTCCCTG CTTTGGCTCC ATGAACGGTG GTGTGTTTGC TGTCTCCAGG 1020
TTAATCTATG TTGCGTCTCG AGAGGGTCAC CTTCACAGAA TCCTCTCCAT GATTCAATGC 1080
CGCAAGCACA CTCTCTACC AGCTGTATTG GTTTTGACCC CTTTGACAAAT GATAATGCTC 1140
TTCTCTGGAG ACCTCGACAG TCTTTTGAAT TTCCTCAGTT TTGCCAGGTG GCTTTTTATT 1200
GGGCTGGCAG TTGCTGGGCT GATTATCTTT CGATACAAAT GCCCAGATAT GCATCGTCTC 1260
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CTTCCCTCTT ATTCGGACCC ATTTAGTACA GGGATTGGCT TCGTCATCAC TCTGACTGGA 1380
GTCCCTCGGT ATTATCTCTT TATTATATGG GACAAGAAAC CCAGGTGGTT TAGAATAATG 1440
TCAGAGAAAA TAACCAGAAC ATTACAAATA ATACTGGAAG TTGTACCAGA AGAAGATAAG 1500
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ATCTAGGCTT TGTGAGTAAT TTCCACACCT TAATTATCAT TCAACTTGCA AAAGAGACAA 2760
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GTTTTGCCAG TATTAGAAAA TACTGTGAGC CGGGCATGGT GGCTTACATC TGTAAATCCA 2880
GCACCTTGGG AGGCTGAGGG GGTGGATCAC CTGAGGTCCG GAGTTCTAGA CCAGCCTGAC 2940
CAACATGGAG AAACCCCATC TCTACTAAAA ATACAAATTT AGCTGGGCAT GGTGGCACAT 3000
GCTGGTAATC TCAGCTATTG AGGAGGCTGA GGCAGGAGAA TTGCTTGAAC CCGGGAGGCG 3060
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Seq ID NO: C6 DNA Sequence
Nucleic Acid Accession #: NM_003246.1
Coding sequence: 112..3624

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TCTGGCGGAG ACAACAGCGT GTTTGACATC TTTGAACTCA CCGGGGCGCG CCGCAAGGGG 240
TCTGGGCGCC GACTGGTGA GGGCCCGGAC CCTTCCAGCC CAGCTTTCCG CATCGAGGAT 300
GCCAACCTGA TCCCCCTCTG GCCTGATGAC AAGTTCCAAG ACCTGGTGGG TGCTGTGCGG 360
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	AGGGCCAGC	TGTACATCGA	CTGTGAAAAG	ATGGAGAATG	CTGAGTTGGA	CGTCCCCATC	660
	CAAAAGCGTCT	TCACCAGAGA	CCTGGCCAGC	ATCGCCAGAC	TCCGCATCGC	AAAGGGGGGC	720
	GTCAATGACA	ATTTCCAGGG	GGTGCTGCAG	AATGTGAGGT	TTGTCTTTGG	AACCACACCA	780
	GAAGACATCC	TCAGGAACAA	AGGCTGCTCC	AGCTCTACCA	GTGTCTCTCT	CACCCCTGAC	840
	AACAACGTGG	TGAATGGTTC	CAGCCCTGCC	ATCCGCACCTA	ACTACATTGG	CCACAAGACA	900
10	AAGGACTTGC	AAGCCATCTG	CGGCATCTCC	TGTGATGAGC	TGTCCAGCAT	GGTCTGGAA	960
	CTCAGGGGCC	TGCGCACCAT	TGTGACCAAG	CTGCAGGACA	GCATCCGCAA	AGTGACTGAA	1020
	GAGAACAAAG	AGTTGGCCAA	TGAGCTGAGG	CGGCCTCCCC	TATGCTATCA	CAACGGAGTT	1080
	CAGTACAGAA	ATAACGAGGA	ATGACTGTGT	GATAGCTGCA	CTGAGTGTCA	CTGTGAGAAC	1140
	TCAGTTACCA	TCTGCAAAAA	GGTGTCTCTG	CCCATCATGC	CCTGTCCCAA	TGCCACAGTT	1200
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20	TGCAAGAAAG	ACGCCCTGCC	CATCAATGGA	GGCTGGGGTC	CTTGGTCACC	ATGGGACATC	1620
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	CCCCAGTTTG	GAGGCAAGGA	CTGCCGTTGG	GATGTAACAG	AAAACAGAT	CTGCAACAAG	1740
	CAGGACTGTC	CAATTGATGG	ATGCCCTGCC	AATCCCTGCT	TTGCCGGCGT	GAAAGTGTACT	1800
25	AGCTACCCCTG	AATGGCAGCTG	GAAATGTGGT	GCTTGTCCCC	CTGGTTACAG	TGGAATGGC	1860
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	GGAGAGCAC	GGTGTGAGAA	CACGACCCCG	GGCTACAACT	GCCTGCCCTG	CCCCCACGCG	1980
	TTCAACCGCT	CACAGCCCTT	CGGCCAGGGT	GTGCAACATG	CCACGCGCAA	CAACAGGGTG	2040
	TGCAAGCCCC	GTAAACCCCTG	CACGGATGGG	ACCCACGACT	GCAACAGAA	CGCCAGGTGC	2100
	AACCTACCTG	GCCACTATAG	CGACCCCATG	TACCGCTGCG	AGTGCAAGCC	TGGCTACGCT	2160
30	GGCAATGGCA	TCAATCTGCG	GGAGGACACA	GACCTGGATG	GCTGGCCCAA	TGAGAACCTG	2220
	GTGTGCGTGG	CCAATGCGAG	TTACCACTGC	AAAAAGGATA	ATTGCCCCAA	CCTTCCCAAC	2280
	TCAGGGCAGG	AAGACTATGA	CAAGGATGGA	ATTGGTGATG	CCTGTGATGA	TGACGATGAC	2340
	AATGATAAAA	TTCCAGATGA	CAGGGACAC	TGTCCATTCC	ATTACAACCC	AGCTCAGTAT	2400
35	GACTATGCG	GAGATGATGT	GGGAGACCGC	TGTGACAACT	GTCCCTACAA	CCACAACCCA	2460
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	GACGGTATCC	TCAATGAACG	GGACAACTGC	CAGTACGTCT	ACATGTGGA	CCAGAGAGAC	2580
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	CAGCTGGACT	CTGACTCAGA	CCGCATTGGA	GATACCTGTG	ACAAACATCA	GGATATTGAT	2700
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	GACCATGACA	AAGATGGCAA	GGGAGATGCC	TGTGACCACG	ATGATGACAA	CGATGGCATT	2820
	CCTGATGACA	AGGACAACTG	CAGACTCGTG	CCCAATCCCG	ACCAGAAAGGA	CTCTGACGGC	2880
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45	CCTCTGGACC	CCAAAGGGAC	ATCCCCAAAT	GACCCTAAGT	GGGTTGTACG	CCATCAGGGT	3060
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	GGATTTGTCT	TTGGCTACCA	GTCCAGCAGC	CGCTTTTATG	TTGTGATGTG	GAAGCAAGTC	3240
	ACCCAGTCTCT	ACTGGGACAC	CAACCCACAG	AGGGCTCAGG	GATACTCGGG	CCTTTCTGTG	3300
50	AAAGTTGTAA	ACTCACAACC	AGGGCCTGGC	GAGCACCTGC	GGAAACGCCCT	GTGGCACACA	3360
	GGAAACACCC	CTGGCCAGGT	CGGCACCCCTG	TGGCATGACC	CTCGTCACT	AGGCTGGAAA	3420
	GATTTACCG	CCTACAGATG	CGTCTCAGC	CACAGGCCAA	AGACGGGTTT	CATTAGAGTG	3480
	GTGATGTATG	AAGGGAAGAA	AATCATGGCT	GACTCAGGAC	CCATCTATGA	TAAAAACCTAT	3540
	GCTGTGTGTA	GACTAGGGTT	GTTTGTCTTC	TCTCAAGAAA	TGGTGTCTCT	CTCTGACCTG	3600
55	AAATACGAAT	GTAGAGATCC	CTAATCATCA	AATTTGTGAT	TGAAAGACTG	ATCATATAAAC	3660
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	CTTGGCTTCC	TTCTTTTCTG	TGCTTGCATC	AGTGTGGACT	CCTAGAACGT	GCGACCTGCC	3780
	TCAGAAAAAT	GCAGTTTTC	AAAACAGACT	CATCAGCATT	CAGCCTCCAA	TGAATAAGAC	3840
	ATCTTCCAAG	CATATAAACA	ATTGCTTTGG	TTTCTTTTGG	AAAAAGCATC	TACTTGTCTC	3900
60	AGTTGGGAAG	GTGCCCATTC	CACCTGCGCT	TTGTACACAG	GCAGGGTGCT	ATTGTGAGGC	3960
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Seq ID NO: C7 DNA Sequence

Nucleic Acid Accession #: NM_002192

Coding sequence: 86..1366

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70	AAGTTGCTGG	ATTATAGTGA	GGAGTTCCCG	CACCCACGGA	TCCGAGGGGC	ACAGCGCGGC	180
	CCCGACTGT	CCGTCTGTG	CGCTGGCCCG	CCTCCCAAAG	GATGTACCCA	ACTCTCAGCC	240
	AGAGATGGTG	GAGGCGGTCA	AGAAGCACAT	TTTAAACATG	CTGCACTTGA	AGAAGAGACC	300
	CGATGTCAAC	CAGCCGGTAC	CCAAGGCGGC	GCTTCTGAAC	GCGATCAGAA	AGCTTCACTG	360
	GGGCAAAAGT	GGGGAGAACG	GGTATGTGGA	GATAGAGGAT	GACATTGGAA	GGAGGGCAGA	420
75	AATGAATGAA	CTTATGGAGC	AGACCTCGGA	GATCATCAGC	TTTGCCGAGT	CAGGAACAGC	480
	CAGGAAGACG	CTGCACTTCG	AGATTTCCAA	GGAAGGCAGT	GACCTGTCTG	TGGTGGAGCG	540
	TGCAGAGTGC	TGGCTCTTCC	TAAAAGTCCC	CAAGGCCAAC	AGGACCAAGG	CCAAAGTCAC	600
	CATCCGCCCT	TTCCAGCAGC	AGAAGCACCC	CGAGGGCAGC	TTGACACAG	GGGAAGAGGC	660
	CGAGGAAGTG	GGCTTTAAAG	GGGAGAGGAG	TGAACTGTTG	CTCTCTGAAA	AAGTAGTAGA	720
80	CGCTCGGAAG	AGCACCTGGC	ATGCTTCCCG	TGCTCTCCAGC	AGCATCCAGC	GGTGTCTGGA	780
	CCAGGGCAAG	AGCTCCCTGG	ACGTTCCGAT	TGCCCTGTGAG	CAGTGCCAGG	AGAGTGGCGC	840
	CAGCTTGGTT	CTCTCTGGGA	AGAAGAAGAA	GAAAGAAGAG	GAGGGGGAAG	GGAAAAAGAA	900
	GGGCGGAGGT	GAAGGTGGGG	CAGGAGCAGA	TGAGGAAAAG	GAGCAGTCGC	ACAGACCTTT	960
	CCTCATGCTG	CAGGCCCGGC	AGTCTGAAGA	CCACCTTCAT	CGCCGGCGTC	GGCGGGGCTT	1020

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AGTTTGAAAG GGGCCATCAC AGGCACCTTC CTAGCCTAAT 1840

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Seq ID NO: C8 DNA Sequence
Nucleic Acid Accession #: NM_000095.1
Coding sequence: 26..2299

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CGCGCAGCAG GTCAGGGAGA TCACTTCTCT GAAAAACACG GTGATGGAGT GTGACGCGTG 240
CGGGATGCAG CAGTCAGTAC GCACCGGCTT ACCACGCGTG CGGCCCTGCG TCCACTGCGC 300
GCCCGGCTTC TGCTTCCCCG GCGTGGCCTG CATCCAGAGC GAGAGCGGGG GCGCTGCGG 360
CCCCTGGCCC GCGGGCTTCA CCGGCAACGG CTGCACTGCG ACCGACGTCA ACGAGTGCAA 420
CGCCCAACCC TGCTTCCCCG GAGTCCGCTG TATCAACACC AGCCCGGGGT TCCGCTGCGA 480
GGCTTGCCCG CCGGGGTACA GCGGCCCCAC CCACAGGGGC GTGGGGCTGG CTTCGCCAA 540
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CCCCAATCC GTGTGCATCA ACACCGGGG CTCTTCCAG TGGCGGCCGT GCCAGCCCG 660
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GAACCCAGAC CAGCGCAACA CGGACGAGGA CAAGTGGGCG GATGCGTGGC ACACTGCGC 1080
GTCCAGAGAG AACGAGGACC AAAAGGACAC AGACAGGAC GCGCGGGGCG ATGCGTGCGA 1140
CGACGACATC GACGGCGACC GGATCCGCAA CCAGGCGGAC AACTGCCCTA GGTATCCCAA 1200
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Seq ID NO: C9 DNA Sequence
Nucleic Acid Accession #: XM_057014
Coding sequence: 143..874

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30 Seq ID NO: C12 DNA Sequence
Nucleic Acid Accession #: AK001903
Coding sequence: none

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70 Seq ID NO: C13 Protein Sequence
Nucleic Acid Accession #: Eos sequence
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Coding sequence: 238..1278

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Seq ID NO: C15 DNA Sequence
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Coding sequence: 23..1489

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25 Seq ID NO: C16 DNA Sequence
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 CTAGTTTCCC TGTGTGACAA TCCAGCCCCA TCCCACTTGG TGGAGAAGAT TGTCTACCA 1080
 50 AGCAAGTACA AGCCAAAGAG GCTGGGCAAT GACATCGCCC TTATGAAGCT GGCCGGGCCA 1140
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 CCTGTCTCA ACCACGCGCG CGTCCCTTTG ATTTCCAAAC AGATCTGCAA CCACAGGGAC 1320
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 GACAGCTCGC AGGGGGGACC CTGGTGTGTC AAGAGAGGAG GCTGTGGAAG 1440
 55 TTAGTGGGAG GCACAGCTT TGGCATCGGC TGGCAGAGG TGAACAAGCC TGGGGTGTAC 1500
 ACCCGTGTCA CCTCCTTCTT GACTGTGATC CACGAGCAGA TGGAGAGAGA CCTAAAACCC 1560
 TGAAGAGGAA GGGGACAAGT AGCCACCTGA GTTCTGAGG TGATGAAGAC AGCCCGATCC 1620
 TCCCTGGGAC TCCCGTGTAG GAACCTGCAC ACAGAGCAGC ACCCTTGGAG CTCTGAGTTC 1680
 CGGCACCATG AGCAGGCCCG AAAGAGGCAC CCTTCCATCT GATTCCAGCA CAACCTTCAA 1740
 60 GCTGCTTTT GTTTTTTGT TTTTGTAGGT GGAGTCTGSC TCTGTGCCCC AGGCTGGAGT 1800
 GCAGTGGGAA AATCCCTGCT CACTGCAGCC TCCGCTTCCC TGGTTCAGAC GATTCTCTTG 1860
 CCTCAGCTTC CCCAGTAGCT GGGACCAAG GTGCCCGCCA CCACACCCAA CTAATTTTGT 1920
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 65 CCTAGCCTCA CGCTCCTTTC TGATCTTAC TAAGAACAAA AGAAGCAGCA ACTTGCAAGG 2100
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 70 ACTCGTTTAA GGCCTATTTT CATGATTTCT TTGTAGCATT TGGTCTTGA CGTATTATTG 2400
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 AAAAAA

75 Seq ID NO: C17 DNA Sequence
 Nucleic Acid Accession #: NM_003220
 Coding sequence: 63..1376

80 1 11 21 31 41 51
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 GCACAGCAAA CGGAGCGGCA CGGTTGCCCC AGCTGGGCAC TGTAGGTCAA TCTCCCTACA 180
 CGAGCGCCCC GCGCTGTGCC CACACCCCCA ATGCCGACTT CCAGCCCCCA TACTTCCCCC 240
 CACCTTACCA GCCTATCTAC CCCAGTGC CAGATCCTTA CTCCACGTC AACGACCCCT 300

5 ACACGCTGAA CCCCTGCAC GCCCAGCCGC AGCCGAGCA CCCAGGCTGG CCCGGCCAGA 360
 GGCAGAGCCA GGAGTCTGGG CTCCTGCACA CGCACCGGG GCTGCCTCAC CAGCTGTGCG 420
 GCCTGGATCC TCGCAGGGAC TACAGGCGGC ACGAGGACCT CTGACACGGC CCACACGCGC 480
 TCAGCTCAGC ACTCGGAGAC CTCTCGATCC ACTCCTTACC TCACGCCATC GAGGAGGTCC 540
 CGCATGTAGA AGACCCGGGT ATTAACATCC CAGATCAAAC TGTAATTAAG AAAGGCCCGC 600
 TGTCCCTGTC CAAGTCCAAC AGCAATGCCG TCTCCGCCAT CCCTATTAAC AAGGACAACC 660
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 TCCTCAGCTC CACCTCGAAG TACAAGGTCA CGGTGGCGGA AGTGCCAGCG CGGCTCTCAC 780
 10 CACCCGAGTG TCTCAACGCG TCGCTGCTGG GCGGAGTGCT CCGGAGGGCG AAGTCTAAAA 840
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 GACGTAAGC TGCCAAAGTT ACCCTGCTCA CATCACTAGT AGAGGGAGAA GCTGTCCACC 960
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 TTCTCAACCG ACAACATTCC GATCCCAATG AGCAAGTGAC AAGAAAAAC ATGCTCCTGG 1080
 15 CTACAAAACA GATATGCAAA GAGTTACCG ACCTGCTGGC TCAGGACCGA TCTCCCTGG 1140
 GGAATCAGC GCCCAACCCC ATCTGGAGC CCGGCATCCA GAGCTGCTTG ACCCACTTCA 1200
 ACCTCATCTC CCACGGCTTC GGCAGCCCG CGGTGTGTGC CCGGTCTCAG GCCCTGCAGA 1260
 ACTATCTCAC CTGGGCCCTC AAGGCCATGG ACAAATGTA CCTCAGCAAC AACCCCAACA 1320
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 20 CTCCTCCCGC CCGCCCTCTA CACGCCCTCA CCGCCCTCC CCGCCCTCC CCGCCCTCC 1440
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 GCCCGCCCGC CCGCTGCCCT TGGGTCCCCC CGAGTCTCCG GGAATGCCCT CTGACTGTC 1560
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25 Seq ID NO: C18 DNA Sequence
 Nucleic Acid Accession #: NM_002988
 Coding sequence: 71..340

30 1 11 21 31 41 51
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 CTGCTCCTGT GCACAAGTTG GTACCAACAA AGAGCTCTGC TGCTCTGCTC ATACCTCCTG 180
 GCAGATTCCA CAAAAGTTCA TAGTTGACTA TTCTGAAACC AGCCCCAGT GCCCAAGCC 240
 35 AGGTGTCTAT CTCTTAACCA AGAGAGGCCG GCAGATCTGT GCTGACCCCA ATAAGAAGTG 300
 GGTCCAGAAA TACATCAGCG ACCTGAAAGT GAATGCTGTA GGGGCTCGGA AGCTGGGAGG 360
 GCCCAGTGAA CTTGGTGGGC CCAGGAGGGA ACAGGAGCCT GAGCCAGGCG AATGGCCCTG 420
 CCACCTCGGA GCCCACTCT TCTAAGAGTC CCATCTGCTA TGCCACGCCA CATTAACTAA 480
 40 CTTTAATCTT AGTTTATGCA TCATATTTC TTTTGAATG GATTCTATT GTTGAGCTGC 540
 ATTATGAAT TAGTATTTC TCTGACATCT CATGACATTG TCTTTATCAT CCTTTCCCT 600
 TTCCCTTCAA CTCTTGTGAC ATTCATGCA TGGATCAATC AGTGTGATTA GCTTTCTCAG 660
 CAGACATTGT GCCATATGTA TCAATGACA AATCTTTATT GAATGGTTT GCTCAGCACC 720
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 45 AAAAAAAAAA AAAAAAAAAA AAA 803

Seq ID NO: C19 DNA Sequence
 Nucleic Acid Accession #: NM_004063
 Coding sequence: 121..2619

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 55 ATGATACTTC AGGCCCATCT TCACTCCCTG TGCTCTCTTA TGCTTTATT GGCAACTGGA 180
 TATGGCCAA AGGGGAAGTT TAGTGGACCC CTGAAACCCA TGACATTTTC TATTTATGAA 240
 GGCCAGAAC CGAGTCAAAAT TATATTCCAG TTTAAGGCCA ATCTCCTGCT TGTTGACTTT 300
 GAACTAACTG GGGAGACAGA CAACATATTT GTGATAGAAC GGGAGGGACT TCTGTATTAC 360
 AACACAGCCT TGGACAGGGA AACAAGATCT ACTCACAATC TCCAGGTTGC AGCCCTGGAC 420
 60 GCTAATGGAA TTATAGTGA GGGTCCAGTC CCTATCACC TAGAAGTGAA GGACATCAAC 480
 GACATTCGAC CCACGTTTCT CCAGTCAAAG TACGAAGGCT CAGTAAGGCA GAACTCTGCG 540
 CCAGGAAAGC CTTCTGTGTA TGTCAATGCC ACAGACCTGG ATGATCGGCG CACTCCCAAT 600
 GGCCAGCTTT ATTACAGAT TGTATCCAG CTTCCCATGA TCAACAATGT CATGTACTTT 660
 CAGATCAACA ACAAACCGGG AGCCATCTCT CTTACCCGAG AGGGATCTCA GGAATTGAAT 720
 65 CCGTCTAAGA ATCTTCTCTA TAATCTGGTG ATCTCAGTGA AGGACATGGG AGGCCAGAGT 780
 GAGAATTCCT TCACTGATAC CACATCTGTG GATATCATAG TGACAGAGAA TATTTGAAA 840
 GCACCAAAAC CTGTGGAGAT GGTGGAAGAAC TCAACTGATC CTCACCCCAT CAAAATCACT 900
 CAGGTGCGGT GGAATGATCC CGGTGCACAA TATTCCTTAG TTGACAAAGA GAAGCTGCCA 960
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 70 GAAGAAAAGG ATGCATATGT TTTTATGCA GTTGCAAAGG ATGAGTACGG AAAACCACTT 1080
 TCATATCCCG TGGAAATTCA TGTAAAAGTT AAAGATATTA ATGATAATCC ACCTACATGT 1140
 CCGTCACCA TAACCGTATT TGAGGTCCAG GAGAAATGAAC GACTGGGTAA CAGTATGGG 1200
 ACCCTTACTG CACATGACAG GGATGAAGAA AATACTGCCA ACAGTTTCTT AAACCTACAG 1260
 ATTGTGGAGC AAATCCCAA ACTTCCCATG GATGGACTCT TCCTAATCCA AACCTATGCT 1320
 75 GGAATGTAC AGTTAGCTAA ACAGTCTTG AAGAAGCAAG ATACTCTCA GTACAACTTA 1380
 ACGATAGAGG TGCTGACAA AGATTTCAAG ACCCTTTGTT TTGTGCAAT CAAGCTTATT 1440
 GATATCAATG ATCAGATCCC CATCTTTGAA AAATCAGATT ATGAAACCT GACTCTTGCT 1500
 GAAGACACAA ACATTGGGTG CACCATCTTA ACCATCCAG CCACTGATGC TGATGAGCCA 1560
 TTTACTGGGA GTTCTAAAAT TCTGTATCAT ATCATAAAGG GAGACAGTGA GGGACGCTG 1620
 80 GGGTTGACA CAGATCCCA TACCAACACC GGATATGTCA TAATTAATAA GCCTCTTGAT 1680
 TTTGAAACAG CAGCTGTTTC CAACATTGTG TTCAAAGCAG AAAATCCTGA GCCTCTAGTG 1740
 TTTGGTGTGA AGTACAAATG AAGTTCTTTT GCCAAGTTCA CGCTTATTGT GACAGATGTG 1800
 AATGAAGCAC CTCAAATTTT CCAACAAGTA TTCCAAGCGA AAGTCAGTGA GGATGTAGCT 1860
 ATAGGCACTA AAGTGGGCAA TGTGACTGCC AAGGATCCAG AAGTCTGGA CATAAGCTAT 1920
 TCAGTGAGG GAGACACAAG AGGTTGGCTT AAAATTGACC ACGTACTG TGAGATCTTT 1980

5	AGTGTGGCTC	CATTGGACAG	AGAAGCCGGA	AGTCCATATC	GGGTACAAGT	GGTGGCCACA	2040
	GAAGTAGGGG	GGTCTTCCTT	GAGCTCTGTG	TCAGAGTTCC	ACCTGATCCT	TATGGATGTG	2100
	AATGACAACC	CTCCAGGCT	AGCCAAGGAC	TACACGGGCT	TGTTCTCTCT	CCATCCCTCT	2160
	AGTGCACCTG	GAAGTCTCAT	TTTCGAGGCT	ACTGATGATG	ATCAGCACTT	ATTTCGGGGT	2220
	CCCCATTTTA	CATTTTCCTT	CGGCAGTGGG	AGCTTACAAA	ACGACTGGGA	AGTTTCCAAA	2280
	ATCAATGGTA	CTCATGCCCG	ACTGCTACC	AGGCACACAG	AGTTTGAGGA	GAGGGAGTAT	2340
	GTGCTCTTGA	TCCGCATCAA	TGATGGGGGT	CGGCCACCTT	TGGAAGGCAT	TGTTTCTTTA	2400
	CCAGTTACAT	TCTGCAGTTG	TGTGGAAGGA	AGTTGTTTCC	GGCCAGCAGG	TCACCAGACT	2460
10	GGGATACCCA	TGTGGGCAT	GGCAGTTGGT	ATACTGCTGA	CCACCTTCT	GGTGATTGGT	2520
	ATAATTTTAG	CAGTTGTGTT	TATCCGCATA	AAGAAGGATA	AAGGCAAGA	TAATGTTGAA	2580
	AGTGTCTAAG	CATCTGAAGT	CAAACTCTG	AGAAGCTGAA	TTTGAAAGG	AATGTTTGAA	2640
	TTTATATAGC	AAGTGCTATT	TCAGCAACAA	CCATCTCATC	CTATTACTTT	TCATCTAAAG	2700
	TGCATTATAA	TTTTTTAAAC	AGATATTTCC	TCTTGTCTCT	TAATATTTCG	TAAATATTTT	2760
15	TTTTTTGAGG	TGGAGTCTTG	CTCTGTGCGC	CAGGCTGGAG	TACAGTGGTG	TGATCCACAG	2820
	TCACGTCAAC	CTCCGCTTCC	TGGGTTTACA	TGATTCTCTC	GCCTCAGCTT	CCTAAGTAGC	2880
	TGGGTTTACA	GGCACCACCC	ACCATGCCCA	GCTAATTTTT	GTATTTTTAA	TAGAGACGGG	2940
	GTTTGGCCAT	TGCGCAGCG	TGGTCTTGAA	CTCCTGACGT	CAAGTGATCT	GCCTGCCTTG	3000
	GTCTCCCAAT	ACAGGCATGA	ACCACTGCAC	CCACCTACTT	AGATATTTCA	TGTGCTATAG	3060
20	ACATTAGAGA	GTATTTTCAT	TTTTCCATGA	CATTTTCTCT	CTCTGCAAT	GGCTTAGCTA	3120
	CTTGTTGTTT	TCCCTTTTGG	GGCAAGACAG	ACTCAITAAA	TATTTCTGTAC	ATTTTTTCTT	3180
	TATCAAGAG	ATATATCAGT	GTGTCTCAT	AGAACTGCCT	GGATTCCATT	TATGTTTTTT	3240
	CTGATTCAT	CTGTGTCCC	CTTCATCCTT	GACTCTTTTG	GTATTTCACT	GAATTTCAAA	3300
	CATTTGTGAG	AGAAGAAAAA	CGTGAGGACT	CAGGAAAAAT	AAATAAATAA	AAGAACAGCC	3360
25	TTTTCCCTTA	GATTTAAACG	AAATGTTTCT	GTGTCAATTA	CCATCTTTAA	TCAATGTGAC	3420
	ATGTTGCTCT	TGGGCTGAAA	TTCTTCAACT	TGGAAATGAC	ACAGACCCAC	AGAAGGTGTT	3480
	CAACACAAAC	CTACTCTGCA	AACCTTGGTA	AAGGAACACG	TCAGCTGGCC	AGATTTCTCT	3540
	ACTACCTGCC	ATGCATACAT	GCTGCGCATG	TTTTCTTCAT	TGATATGTTA	GTAAAGTTTT	3600
	GGTTATTATA	TATTTAAACAT	GTGGAAGAAA	ACAAGACATG	AAAAGAGTGG	TGACAAATCA	3660
30	AGAATAAAC	CTGGTTGTAG	TCAGTTTGTG	TTGTTAA			3697

Seq ID NO: C20 DNA Sequence

Nucleic Acid Accession #: NM_004443

Coding sequence: 28..3024

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40	CCGCCGCCGG	GGCTTCTGCC	GCTGCTCCCT	CCGCTGCTGC	TGCTGCCGCT	GCTGCTGCTG	120
	CCGCCCGGCT	GCCGGCGGCT	GGAAGAGACC	CTCATGGACA	CAAAATGGGT	AACATCTGAG	180
	TTGGCGTGA	CATCTCATCC	AGAAAGTGGG	TGGGAAGAGG	TGAGTGGCTA	CGATGAGGCC	240
	ATGAATCCCA	TCGGACATA	CCAGGTGTGT	AATGTGCGCG	AGTCAAGCCA	GAACAACCTG	300
	CTTCGACCGG	GTTTCTCTG	CGCGCGGGAT	GTGCAGCGGG	TCTACGTGGA	GCTCAAGTTC	360
45	ACTGTGCGTG	ACTGCAACAG	CATCCCAAC	ATCCCGGGCT	CCTGCAAGGA	GACCTTCAAC	420
	CTCTTCTACT	ACGAGGCTGA	CAGCGATGTG	GCCTCAGCCT	CCTCCCGCTT	CTGGATGGAG	480
	AACCCCTACG	TGAAAGTGA	CACCAITGCA	CCCGATGAGA	GCTTCTCGCG	GCTGGATGCC	540
	GGCGGTGTCA	ACACCAAGGT	GCGCAGCTTT	GGGCCACTTT	CCAAGGCTGG	CTTCTACCTG	600
	GCCTTCCAGG	ACCAAGGGCG	CTGCATGTGG	CTCATCTCCG	TGCGCGCCTT	CTACAAGAGG	660
50	TGTGATACCA	CCACGCGAGG	CTTCGCACTC	TTCCCGGAGA	CCCTCACTGG	GGCGGAGCCC	720
	ACCTGCGTGG	TCAATGCTCC	TGGCACCCTG	ATCCCTAACG	CCGTGGAGGT	GTGCGTGCCA	780
	CTCAAGCTCT	ACTGCAACGG	CGATGGGGAG	TGGATGGTGC	CTGTGGGTGC	CTGCACCTGT	840
	GCCACGCGCC	ATGAGCCAGG	TGCCAAGGAG	TCCCACTGCC	GCCCTGTGCC	CCCTGGGAGC	900
	TACAAGGCGA	AGCAGGGAGA	GGGGCCCTGC	CTCCCATGTC	CCCCCAACAG	CCGTACCAAC	960
55	TCGCCAGCCG	CTGCACTCTG	CACCTGCCAC	AAATACTTCT	ACCGTGCGAG	CTCGGACTCT	1020
	GCGGACAGTG	CCTGTACCAC	CGTGCCATCT	CCACCCCGAG	GTGTGATCTC	CAATGTGAAT	1080
	GAAACCTCAC	TGATCTCTGA	GTGGAGTGAG	CCCCGGGACC	TGGGTGGCGG	GGATGACCTC	1140
	CTGTACAATG	TCATCTGCAA	GAAGTGCCAT	GGGGCTGGAG	GGGCTTCAGC	CTGTCTCAGC	1200
	TGTGATGACA	ACGTGAGATT	TGTGCTCTCG	CAGCTGGGCC	TGACGGAGCG	CCGGGTCCAC	1260
60	ATCAGCATATC	TGCTGGCCCA	CACGCGCTAC	ACCTTTGAGG	TGCAGGCGGT	CAACGGTGTG	1320
	TGGGCAAGA	GCCTCTGCG	GCTCTGTTAT	GCGGCGGTGA	ATATCACAC	AAACAGGCT	1380
	GCCCGCTCTG	AAGTGCCAC	ACTACGCTTG	CACAGCAGCT	CAGGCAGCAG	CCTCACCTTA	1440
	TCCTGGGCAC	CCCCAGAGCG	GCCCAACGGA	GTATCTCTGG	ACTACGAGAT	GAAGTACTTT	1500
	GAGAAGAGCG	AGGGCATCGC	CTCCACAGTG	ACCAGCCAGA	TGAACCTCGT	GCAGCTGGAC	1560
65	GGGCTTCGGC	CTGACGCCCC	CTATGTGCTC	CAGGTCCGTG	CCCGCACAGT	AGCTGGCTAT	1620
	GGGCAGTACA	GCCGCCCTGC	CGAGTTTGAG	ACCACAAGTG	AGAGAGGCTC	TGGGGCCAG	1680
	CAGCTCCAGG	AGCAGCTTCC	CCTCATCTG	GGCTCCGCTA	CAGCTGGGCT	TGTCTTGGTG	1740
	GTGGCTGTCT	TGGTCTATCG	TATGCTCTGC	CTCAGGAAGC	AGCGACACGG	CTCTGATTCT	1800
	GAGTACACGG	AGAAGCTGCA	CGAGTACATT	GCTCCTGGAA	TGAAGGTTTA	TATTGACCTT	1860
70	TTTACCTACG	AGGACCTTAA	TGAGGCTGTT	CGGGAGTTTG	CCAAGGAGAT	CGAGGTGTCC	1920
	TGCGTCAAGA	TGAGGAGGAT	GATCGGAGCT	GGGGAATTTG	GGGAAGTGTG	CGTGGTTCGA	1980
	CTGAACACGC	CTGGCCGCGG	AGAGGTGTTT	GTGGCCATCA	AGACGCTGAA	GGTGGGCTAC	2040
	ACCGAGAGGC	AGCGGCGGGA	CTTCTTAAGC	GAGGCTTCCA	TCATGGGTCA	GTTTGATCAC	2100
	CCCAATATATA	TCCGGCTCGA	GGGCGTGGTC	ACCAAAAGTC	GGCCAGTTAT	GATCCTCACT	2160
75	GAGTTCATGG	AAACTGCGC	CCTGGACTCC	TTCTCTCGGG	TCAACGATGG	GCAGTTCAAG	2220
	GTATCCAGC	TGGTGGGCAT	GTGCGGGGCG	ATTGCTGCGG	GCATGAAGTA	CCTGTCCGAG	2280
	ATGAACATAT	TGCAACGCGA	CCTGGCTGCT	GCACACATCC	TTGTCAACAG	CAACCTGGTC	2340
	TGCAAGTCTC	CAGACTTTGG	CCTCTCCCGG	TTCTGGAGG	ATGACCCCTC	CGATCCTACC	2400
	TACACAGATT	CCCTGGGGCG	GAAGATCCCC	ATCCGCTGGA	CTGCCCCAGA	GGCCATAGCC	2460
80	TATCGGAAGT	TCACTTCTCG	TAGTATGTG	TGGAGCTACG	GAATTGTGAT	GTGGGAGGTC	2520
	ATGAGCTATG	GAGAGCGACC	CTACTGGGAC	ATGAGCAACC	AGGATGTGAT	CAATGCCGTG	2580
	GAGCAGGATT	ACCGGCTGCC	ACCAACCATG	GACTGTCCCA	CAGCACTGCA	CCAGCTCATG	2640
	CTGGACTGCT	GGGTGCGGGA	CGGGAACCTC	AGGCCCAAT	TCTCCAGAT	TGTCAATACC	2700
	CTGGACACGC	TATCTCGCAA	TGCTGCCAGC	CTCAAGTCA	TGCGACGCGC	TCAGTCTGGC	2760
	ATGTACAGC	CCCTCTGGA	CCGCAAGGTC	CCAGATTACA	CAACCTTCAC	GACAGTTGGT	2820

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GATTGGCTGG ATGCCATCAA GATGGGGCGG TACAAGGAGA GCTTCGTGAG TGGGGGTTT 2880
GCATCTTTTG ACCTGGTGGC CCAGATGACG GCAGAAGACC TGCTCCGTAT TGGGGTCACC 2940
CTGGCCGGCC ACCAGAAGAA GATCCTGAGC AGTATCCAGG ACATGCGGCT GCAGATGAAC 3000
CAGACGCTGC CTGTGACAGT CTGACACCGG CTCCACCGGG GACCTGAGG ACCGTGACGG 3060
GATGCCAAGC AGCGGGCTGG ACTTTGGGAC TCTTGGACTT TTGGATGCTT GGCTTAGGC 3120
TGTGGCCGAG AAGCTGGAAG TTTGGGAAAG GCCCAAGCTG GGACTTCTCC AGGCCTGTGT 3180
TCCCTCCCCA GGAAGTGGCG CCCAAACCTC TTCATATTGA AGATGGATTA GGAGAGGGGG 3240
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AGCAGAATAA AGGCAATAAG ATGAA 3805

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20 Seq ID NO: C21 DNA Sequence
Nucleic Acid Accession #: NM_001804
Coding sequence: 82..879

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1 11 21 31 41 51
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TACCCCGGCC CAGCCAGGCC AGCCAGCCTC GGCTGGGGCC CGGCAAACTA CGGCCCCCGG 180
GCCCCGCCCC GCGCGCCCCC GCAGTACCCC GACTTCTCCA GCTACTCTCA CGTGGAGCCG 240
GCCCCGCGCG CCGCAGCGGC CTGGGGGGCG CCCTTCCCTG CGCCCAAGGA CGACTGGGCC 300
GCGGCTTAGG GCGCGGCCCC CGCGGCCCTT GCGCCAGGCC CAGCTTCGCT GGCAATCGGG 360
CCCCCTCCAG ACTTTAGCCC GGTGCGCGCG CCCCCTGGGC CCGGCCCGGG CCTCCTGGCG 420
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GAGTGGATGC GCGCGAGCGT GCGCGCCGGA GCGCGCGGTG GCAGCGGTAA GACTCGGACC 540
AAGGACAGAT ACCGCGTGTG CTACACCGAC CACCAACGCC TGGAGCTGGA GAAGGAGTTT 600
CATTACAGCC GTTACATCAC AATCCGCGCG AATCAGAGC TGGCTGCCAA TCTGGGGCTC 660
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AAGAAGAAAC AGCAGCAGCA ACAGCCCCCA CAGCCGCGGA TGGCCACGA CATCAAGGCC 780
ACCCGAGCCC GGCCTATCCC GGGGGGCGCT TGTCCAGCA ACACAGCCT CCTGGCCACC 840
TCTCTCCAA TGCTGTGAA AGAGGAGTTT CTGCCATAGC CCGATGCCCA GCCTGTGCGC 900
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CCCTTGGCCG CATTTGTGTG AGTAAGCCCTG TTGGATAAAG ACCTTCCAGC TCCTGTGTTC 1080
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AACTCACACC TGCCCTCTCT GCAGCCTCAC CTCTACCTGC CCGCATCATA AGGGCACTGA 1380
GCGCTTCCCA GCGGTGATAC TAAGCACAAA GCCCATAGCA CTGGGCTCTG ATGGCTGCTC 1440
CACTGGGTGA CAGAAATACA GCGCTCATGA TCATTCTCAG TGAGGGCTCT GGATTGAGAG 1500
GGAGGCCCTG GAGGAGGAGA AGGGGCGAGA GTCTTCCCTA CCGGTTTCTT ACACCCCGCG 1560
CAGGCTGCCC ATCAGGGCCC AGGAGGCCCC CAGAGSACTT TATTGAGACC AAGCAGAGCT 1620
CACAGCTGGA CAGGTGTGTG ATATAGAGTG GAATCTCTTG GATGCAGCTT CAAGAATAAA 1680
TTTTCTCTCT CTTTTCAAA 1699

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Seq ID NO: C22 DNA Sequence
Nucleic Acid Accession #: NM_021978
Coding sequence: 36..2603

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Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..2268

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Seq ID NO: C24 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..2424

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Seq ID NO: C25 DNA Sequence
Nucleic Acid Accession #: XM_097386.3
Coding sequence: 142..795

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Seq ID NO: C26 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 95..2128

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70 Seq ID NO: C27 Protein Sequence
 Protein Accession #: NP_005161.1

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80 Seq ID NO: C28 DNA Sequence
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Seq ID NO: C29 Protein Sequence
Protein Accession #: NP_004280.2

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PDSGLSLD SSSNNTSVIK SSSHSVCD E GAIGYCTDHE SSSHHDL EGA VGGYYPEPSK 180
LCHLDQSDSD FHGDLTFQHV FHNHTYHLQF TAPESTSEPF PWPGKSQKIR SRYLEDTRDN 240
LSRDEQRARA LHPFSPVDEI VGMPVDSFNS MLSRYLLTDL QVSLIRDIRR RGKNKVAQN 300
CRRLKLDIIL NLEDDVCLNQ AKKETLKREQ AQCNKAINIM KQKLHDLHYD IFSRLRDDQG 360
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Seq ID NO: C30 DNA Sequence
Nucleic Acid Accession #: NM_004442
Coding sequence: 19..2982

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AGATTACAC	ATAACAATAT	TAACCTTATA	TCTAAATGGG	CTAAATCCCC	CAATTAAAAG	5940
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TCCTCTGATG	ACAGTTGTGA	CAGCTTTGCT	TCTGATAATT	TTGCAACAC	GAGGCTGCAG	300
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GCGATGAGGT	TTCCAGCGCG	GAGTACCAAG	GGAGCAACCA	ACAAAAAAGC	AGAGTCCCCG	420
CAGCCCTCAG	AGAATTTCTG	GACTGATTCC	AACCTCCGAT	CAGAAGATGA	AAGTGGAAATG	480
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TTGATATTAA	AACTAGTCT	GTGGTTCTTT	GCAGTTTCTT	GTAAATTTAT	AAACAGGCA	2160
CAAGGTTCAA	GTTTAGATTT	TAAGCACTTT	TATAACAATG	ATAAGTCCCT	TTTTGGAGAT	2220
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25	GATGAGCAGC	ATCTCATGTT	GCTAAAGCTG	GCCAGGCCCG	TAGTGCCTGG	GCCCCGCGTC	540
	CGGSCCTCTG	AGCTTCCCTA	CCGCTGTGCT	CAGCCCGGAG	ACCAGTGCCA	GGTTGTCTGG	600
	TGGGSCACCA	CGGCGGCCCG	GAGAGTGAAG	TACAACAAGG	GCCTGACCTG	CTCCAGCATC	660
	ACTATCTCTG	GGCCTAAGAA	GTGTGAGGTC	TTCTACCTCG	GCGTGTCTAC	CAACAACATG	720
	ATATGTGTGT	TGCTGACCG	GGGCCAGGAC	CCTTGCCAGA	GTGACTCTGG	AGGCCCGCTG	780
30	GTCTGTGACG	AGACCTCCCA	AGGCATCTCT	TGCTGGGGTG	TTTACCCCTG	TGGCTCTGCC	840
	CAGCATCCAG	CTGTCTACAC	CCAGATCTGC	AAATACATGT	CCTGGATCAA	TAAAGTCATA	900
	CGCTCCAAC	GATCCAGATG	CTAOGCTCCA	GCTGATCCAG	ATGTTATGCT	CCTGCTGATC	960
	CAGATGCCCA	GAGGCTCCAT	CGTCCATCCT	CTTCTCTCCC	AGTCGGCTGA	ACTCTCCCTT	1020
	TGCTCTGACT	GTTCAAACCT	CTGCCGCCCT	CCACACCTCT	AAACATCTCC	CCTCTCACCT	1080
35	CATTCCCCCA	CCTATCCCCA	TTCTCTGCTC	GTACTGAAAG	TGAAATGCAG	GAGTGGTGG	1140
	CAAAGGTTTA	TTCCAGAGAA	GCCAGGAAGC	CGGTCTATC	CCAGCCTCTG	AGAGCAGTTA	1200
	CTGGGGTAC	CCAACTGAC	TTCTCTGCTC	ACTCCCGCT	GTGTGACTTT	GGGCAGGCCA	1260
	AGTGCCCTCT	CTGAACCTCA	GTTTCTCTAT	CTGCAAAATG	GGAACAATGA	CGTGCTTACC	1320
	TCTTAGACAT	GTGTGAGGA	GACTATGATA	TAACATGTGT	ATGTAATCT	TCATGTGATT	1380
40	GTCTGTAAAG	GCTTAACACA	GTGGGTGGTG	AGTCTGACT	AAAGGTTACC	TGTTGTCTGT	1440
	AAAAAAAAAA	AAAA					1454

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Nucleic Acid Accession #: XM_095088							
Coding sequence: 1..4074							
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	GACTTGGCAG	CGCGCTGGGT	GCACCTGCGA	GAGATCCAGT	CCCTCTGGGT	CGAAGCGCGG	180
	GAGCTGCCAA	CGCGGGTGTCT	GGAGGGGCTG	AGCCAGCGGC	CGCGGCGCGA	GCGGGAGGCA	240
	GCTGTACGCT	CCCGCGGAGG	CGCGCGAGTG	CCCCCGGGGG	CCCGAGCGGT	TCCAGAGCGC	300
	TGCGCTGGAA	CGGAGAACCG	CGCGGAGCGC	AGGTGACGCG	GCGTGCAGCG	CCTTGGAGGC	360
55	GGATTACGGG	GATGCCCGGC	GGACCCCTGT	GCCCCAGGGG	AACACCGGAG	GCACACCATC	420
	ACCAGCGCGG	TGGACTGGGG	CCTGCTGAAG	CAGATGAAGG	AGCTGGAGCA	GGAGAAGGAG	480
	GTCTGTCTAC	AGGGTTTGGAA	GATGATGGCG	CAGGGCGCGG	ATTGTTACCA	GCAGCAGCTG	540
	CAACAAGTGC	AGGAGCGCCA	GTGCGCGCTG	GGCCAGAGCA	GAGCCAGCGC	CGACTTTGGG	600
	GCGGTGGGGA	GCCTCGCCCC	ACTGGGACGG	CTACTGCCCA	AGGTACAGGA	GGTGGCCCGG	660
60	TGGCTGGGGG	AGCTGTCTGC	TGAGGCTCTG	GCGGCTCGGG	CCCTGCCCAC	ATCTCTCTCC	720
	GGGCCCCCTT	GCTCTGCCCT	GACGTCCACC	TGCTCCCGGG	GCTGGCAGCA	GCAGATCATC	780
	CTCATGCTGA	AGGAGCAGAA	CCGACTCTCT	ACCCAGGAGG	TGACCGAGAA	GAGTGAGCGC	840
	ATCAOAGCAG	TGAGCAGAAA	GTGCGCGCTC	ATTAAGCAGC	TATTTGAGGC	CGCGCCCTTG	900
	AGCCAGCAGG	ATGGGGGCTT	GTCCCGGGCT	GGCCCCCACA	TTGAGCCCTT	GACTCGGTTT	960
65	CGGCTCTCGG	TGCTGACATG	GGCTGGGGCT	CTCTGAGTCT	CGCATAGTCC	GCAGCTACTA	1020
	CTGCCCGCTG	CAGCGACAG	TGGGGGACCC	CTCCACGAGT	TACCAGATAC	CTGGTTTCCA	1080
	GCGGTGCTGC	TTTGGGTCCC	ATCTCCAGGG	AAAAGAACTG	CTACGCGCAG	GCTGCACCTT	1140
	CACCAAGGCG	CAGCAGAGGG	CGCGTGGCAG	CTCGGATGCG	GCGCTGAGGC	TGCGCCCGAG	1200
	ACCTGCGGAT	CGCTGCCCA	CTTTGAGTCC	CACAAAACAA	CCTGTGAGCC	TGACTCCCTC	1260
70	GGAGGGCCCT	GTCGCCAGGA	GGGGGATGCG	AGCTGGAGCC	ACCTGGGGCG	AGCGTTTGAT	1320
	GTGGCACCTG	CAGTGCCCAA	AGTGACACCC	AACCGTGAGG	ACGCTGCGAG	GAGTCGGCAC	1380
	GGAGACATCT	GTCCCTCTTG	TCCCAAGGGA	CTGTTGACAT	TCAGAGACAT	AGCTATAGAA	1440
	TTCTCTCTGG	CGGAGTGCCA	ATGCTCTGGT	CATGCTCAGC	AGAATTTATA	TAGAGATGTG	1500
	ATGTTAGAGA	ACTACAGAAA	CCTGTTCTCC	CTGGGTATGA	CTGCTCTCAA	GCCAGACTTG	1560
75	ATGCGCTGTG	TGGAGCAAAA	TAAAGAGCCC	CAGAAATATA	AGAGAAATGA	GATGCGAGCC	1620
	AAACACCCAG	TTACATGTTT	TCATTTCAAC	CAAGACCTTC	AGCCAGAGCA	GAGCATAAAA	1680
	GATTCACTCC	AAAAAGTAAT	ACCAAGAACCA	TATGGAAAAT	GTGGACATGA	GAATTTACAA	1740
	TTAAAAAAT	GTGTGAAAAG	AGTAGATGAG	TGTGAGGTGC	ACAAAGGAGG	TTATAATGAC	1800
	CTTAACCAAT	GTTTGTCAAA	TACCAAAAC	AAAAATATT	AGACTCATAA	ATGTGTCAAA	1860
80	GTCTTCAGTA	AATTTTCAAA	TTCCAATAGA	CACAAATGCA	GATATACTGG	AAAGAAACAT	1920
	TTGAAATGTA	AAAAATATGG	CAAAATCATTT	TGCAATGTTT	CACACCTAAA	TCAACATCAG	1980
	ATAATTCATA	CTAAGGAGAA	GTCTTACAAA	TGTGAAGAAT	GTGGCAAACT	CTTTAAACCAC	2040
	TCCTCAAGCG	GTAATACACA	TAAAGAAATT	CTTACTGGAG	AGAAACCTTA	CAGATGTGAG	2100
	GAATGTGGCA	AAGCCTTTAG	GTGGCCCTCA	AACCTTACTA	GACATAAGAG	AATTCAACT	2160

5	GGAGAGAAAC CCTACGCTATG TGAAGAATGT GGCCAAGCCT TTAGGCGCTC CTCAACACTT 2220
	ACTAACCACA AGAGAATTCA TACTGGAGAG AGACCCCTACA AATGTGAAGA ATGTGGGCAA 2280
	GCCTTTAGCG TATCCTCAGC CCTCATTTC CACAAGAGAA TTCATACTGG AGAGAAACCC 2340
	TACACATGTG AAGAATGTGG CAAAGCCTTT AACTGCTCCT CGACTCTTAA GACACATAAG 2400
	ATAATTCTATA CTGGAGAGAA ACCCTACACA TGTGAAGAAT GTGSCAGAAC CTTTAACTGC 2460
	TCCTCAACTG TAAAGGCACA TAAGAGAATT CATACTGGAG AGAAACCATA CAAATGTGAA 2520
	GAATGTGACA AAGCTTTTAA GTGGCATTCA AGTCTTGCTA AACATAAGAT AATTCACACT 2580
	GGAGAGAAAC CCTACAAATG CAGTGACAGC AAAGCCTTAG CCAATCATC AGAAGTGCAA 2640
10	AAGGTCTACT CTGGAGATGG GGAAAATGGA ATCCGTGTAC ATAAGAAAAA GGAGACACAG 2700
	GGCTGGCTTG TGAGAAACAA GAACGAAAT AGAACAGGGC TGTTCAGAT CCGGGCTGCC 2760
	GTGAGAGCA ACAGGGACCC TTCATGGGGA CAGCAAGAAG GTTCACCTGAC TGACCCAATT 2820
	CAGAGGAAGG AGGAACCTGA CCTTCAAAAT CACTATGACC ATCAGAATGC CTTAGAAGAT 2880
	CAAAGAAATA CTGGAGTGGG TGGACTGTG ACATTAGAG ATGTAGTCAT AGAATTTCTT 2940
15	CTGGAGGAGT GGCAATGCCT GGATCACGCT CAGCAGAAAT TATATAGAGA TGTGATGTTA 3000
	GAGAATACAA GAAACCTGGT CTCCCTGGGT ATTGCTGTCT CTAGCCAGA CTTGATCACC 3060
	TGCTTGGAGC AAAATGGAAG GCCTTGGAA ATAAAGAGAA ATGAGATGGT AACCAACAC 3120
	CCAGACCTTC CGCCAGAGCT AGGCATAAAA GATTCACTCC AAAAGTAAT ACCAAGAAGA 3180
	TATGGAAAAA GTGGACATGA CAATTACAA GTAAAAACAT GTAAAAGCAT GGGTGAGTGT 3240
20	GAGGTGCAAA AAGGAGGTTG TAATGAAGTT AACCAATGTT TGTCAACTAC CCAAAACAAA 3300
	ATATTTGAGA CTCATAAATG TGTCAAAGTC TTCGGCAAT TTTCAAATTC CAATAGACAT 3360
	AAGACAAGAC ATACTGGAAA GAAACATTTC AAATGTAAAA AATATGGCAA ATCATTTTGC 3420
	ATGGTTTCAC AACTACATCA ACATCAGATA ATTCACTACT GGGAGAATTC CTACCAATGT 3480
25	GAAGAATGCG GCAAAACCTT CAACTGCTCT TCAACCCCTT CTAACATATA AAGAATTCAT 3540
	ACTGGAGAGA AACCTACAG ATGTGAGGAA TGTGGCAAG CTTTACCTG GTCCTCAACC 3600
	CTTACTAAAC ATAGGAGAAAT TCATACTGGA GAAAACCCCT ACACATGTGA AGAATGTGGC 3660
	CAAGCCTTTA GCGCTCTCTC AACACTTGCT AACCAAGA GAATTCATAC TGGAGAGAAA 3720
	CCATACACAT GTGAAGAATG TGGCAAGGCC TTTAGCTTAT CCTCATCCCT CACTTACCAC 3780
	AAGAGAATTC ATACTGGAGA GAAACCTTAC ACATGTGAAG AATGTGGCAA AGCCTTTAAC 3840
30	TGCTCCTCAA CCTTTAAGAA ACATAAGATA ATTCACTACT GAGAGAAACC CTACAAATGT 3900
	AAAGAATGTT GGAAGGCCTT TGCTTCTCC TCAACTCTTA ATACTATAA GAGGATTCAT 3960
	ACTGGAGAGT AACCTACAA ATGTGAAGAA TGTGACAAAG CTTTAAAGTG GTCCTCAAGT 4020
	CTTCTAATC ATAAGAGTAT GCATACTGGA GAGAAACCCT ACAAATGTGA ATAA 4074

Seq ID NO: C37 DNA Sequence
Nucleic Acid Accession #: NM_032044
Coding sequence: 182..658

40	1 AAGATATAAA 11 AGCTCCAGAA 21 ACGTTGACTG 31 GGACCACTGG 41 AGACACTGAA 51 GAAGGCAGGG 60
	GCCTTTAGAG TCTTGGTTGC CAAACAGATT TGCAGATCAA GGAGAACCCA GGAGTTTCAA 120
	AGAAGCGCTA GTAAGGCTCT TGAGATCCTT GCACTAGCTA CATCCTCAGG GTAGGAGGAA 180
	GATGGCTTCC AGAAGCATGC GGCTGCTCCT ATTGCTGAGC TGCCCTGGCA AAACAGGAGT 240
45	CCTGGGTGAT ATCATCATGA GACCCAGCTG TGCTCCTGGA TGGTTTACC ACAAGTCCAA 300
	TTGCTATGGT TACTTCAGGA AGCTGAGGAA CTGGTCTGAT GCGAGCTCG AGTGTGAGTC 360
	TTACGGAAAC GGAGCCCAACC TGGCATCTAT CTTGAGTTTA AAGGAAGCCA GCACCATAGC 420
	AGAGTACATA AGTGGCTATC AGAGAAGCCA GCGATATGG ATTGGCTGTC ACGACCCACA 480
50	GAAGAGGCGA CAGTGGCAGT GGATTGATGG GGCCATGTAT CTGTACAGAT CCTGTGCTGG 540
	CAAGTCCATG GGTGGGAACA AGCACTGTGC TGAGATGAGC TCCAATAACA ACTTTTAAAC 600
	TTGGAGCAGC AACGAATGCA ACAAGCCCA ACACCTCTCG TGCAAGTACC GACCATAGAG 660
	CAAGAATCAA GATTCTCTA ACTCCTGCAC AGCCCGCTCC TCTTCTTTC TGCTAGCCTG 720
	GCTAAATCTG CTCATTATTT CAGAGGGGAA ACCTAGCAAA CTAGAGTGA TAAGGGCCCT 780
55	ACTACACTGG CTTTCTTAGG CTTAGAGACA GAACTTTAG CATTTGCCCA GTAGTGGCTT 840
	CTAGCTCTAA ATGTTTGGCC CGCCATCCCT TTCCACAGTA TCCTTCTTCC CTCCTCCCT 900
	GTCCTGGCTG GTCTCGAGCA GTCTAGAAGA GTGCATCTCC AGCCTATGAA ACAGCTGGGT 960
	CTTTGGCCAT AAGAAGTAAA GATTTGAAGA CAGAAGGAAG AAACCTCAGGA GTAAGCTTCT 1020
	AGACCCCTTC AGCTTCTACA CCTTCTGCC CTCTCTCCAT TGCTTGACCC CACCCCGAGC 1080
60	CATCTCAACT CTGCTTGTAT TTCTTTGGC CATAGGAAGG TTTACCACTA GAATCCTTGC 1140
	TAGGTTGATG TGGCCATAC ATTCTTTTAA TAAACCATTT TGTACATAAG AAAAAAAA 1200

Seq ID NO: C38 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 52..3042

65	1 GCTCACCAG 11 GAAAAATATG 21 CAATCGTCCC 31 ATTGATATAC 41 AGGCCACTAC 51 AATGGATGGA 60
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70	GACCGGGGCA GAGCCTGCCG GAGCTACCGT GTACGGTTCC TCTGTGGGAA GCCTGTGAGG 180
	CCCAACTCA CAGTCACCAT TGACACCAAT GTGAACAGCA CCAATCTGAA CTTGGAGGAT 240
	AATGTACAGT CATGGAAACC TGGAGATACC CTGGTCATTG CCAGTACTGA TTACTCCATG 300
	TACCAGGCGA AAGAGTTCCA GGTGCTTCCC TGCAATCCT GCGCCCCCAA CCAGGTCAAA 360
	GTGGCAGGGA AACCAATGTA CCTGCACATC GGGAGGAGA TAGACGGCGT GGACATGCGG 420
75	GCGAGGTTG GGCTTCTGAG CCGGAACATC ATAGTGTATG GGGAGATGGA GGACAAATGC 480
	TACCCCTACA GAAACACAT CTGCAATTTT TTTGACTTCG ATACCTTTGG GGGCCACATC 540
	AAGTTTGCTC TGGGATTATA GGCAGCACAC TTGGAGGGCA CCGAGCTGAA GCATATGGA 600
	CAGCAGCTGG TGGGTCACTA CCGGATTCAC TTCCACCTGG CCGGTGATGT AGACGAAAGG 660
	GGAGGTTATG ACCCAACCCAC ATACATCAGG GACCTCTCCA TCATCATAC ATTCTCTGCG 720
80	TGCTGACAG TCCATGGCTC CAATGGCTTG TTGATCAAGG ACGTTGTGGG CTATAACTCT 780
	TTGGGCCACT GCTTCTTCTC GGAAGATGGG CCGGAGGAAC GCAACACTTT TGACCACTGT 840
	CTTGGCTCTT TTGTCAAGTC TGGAAACCTC CTCCTCTCGG ACGGTGACAG CAAGATGTGC 900
	AAGATGATCA CAGGAGACTC CTACCCAGGG TACATCCCCA AGCCAGGCA AGACTGCAAT 960
	GCTGTGTCCA CCTTCTGGAT GGCCAATCCC AACCAACACC TCATCAACTG TGCCGCTGCA 1020
	GGATCTGAGG AAAGTGGATT TTGTTTATT TTTCAACAGG TACCAACGGG CCCCCTCGTG 1080

	GGAAATGACT	CCCCAGGTTA	TTCAAGACAC	ATTCACCTGG	GAAAATTCTA	TAACAACCGA	1140
	GCACATTCCA	ACTACCGGGC	TGGCATGATC	ATAGACAACG	GAGTCAAAAC	CACCGAGGCC	1200
	TCGTCCAAGG	ACAAGCGGCC	GTTCCTCTCA	ATCATCTCTG	CCAGATACAG	CCCTCACCAG	1260
5	GACGCGGACC	CGCTGAAGCC	CCGGGAGCGC	GCCATCATCA	GACACTTCAT	TGCCTACAAG	1320
	AACCAAGACC	ACGGGGCCCTG	GCTGCGCGGC	GGGATGTGT	GGCTGGACAG	CTGCCGGTTT	1380
	GCTGACATG	GCATTGGCCT	GACCTGGGCC	AGTGGTGGAA	CCTTCCCGTA	TGACGACGGC	1440
	TCCAAGCAAG	AGATAAAGAA	CAGCTTGTIT	GTGGGCGAGA	GTGGCAACGT	GGGGACGGAA	1500
	ATGATGGACA	ATAGGATCTG	GGGCCCCGGC	GGCTTGGACC	ATAGCGGAAG	GACCTCCCTT	1560
10	ATAGCCGAGA	ATTTTCCAAT	TAGAGGAATT	CAGTTATATG	ATGGCCCCAT	CAACATCCAA	1620
	AACTGCACCT	TCCGAAAGTT	TGTGGCCCTG	GAGGGCCGGC	ACACGAGCGC	CCTGGCCTTC	1680
	CGCTTGAATA	ATGCTTGGCA	GAGCTGCCCC	CATAACAACG	TGACCGGCAT	TGCCTTTGAG	1740
	GACGTTCCGA	TTACTTCCAG	AGTGTTCCTC	GGAGAGCCTG	GGCCCTGGTT	CAACCAGCTG	1800
	GACATGGATG	GGGATAAGAC	ATCTGTGTTC	CATGACGTGG	ACGGCTCCGT	GTCCGAGTAC	1860
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15	GTTCOCGACT	GGAGAGGGGC	CATTTCGAGT	GGGTGCTATG	CACAGATGTA	CATTCAAGCC	1980
	TACAAGACCA	GTACCTCGCG	AATGAAGATC	ATCAAGAATG	ACTTCCCCAG	CCACCTCTTT	2040
	TACCTGGAGG	GGGCGCTCAC	CAGGAGCACC	CATTACCAGC	AATACCAACC	GGTTGTCAAC	2100
	CTGCAGAAGG	GCTACACCAT	CCACTGGGAC	CAGACGGCCC	CCGCCGAAC	CGCCATCTGG	2160
20	CTCATCAACT	TCAACAAGGG	CGACTGGATC	CGAGTGGGGC	CTGTCTACCC	GCGAGGCACC	2220
	ACATTCTCCA	TCCTCTCGGA	TGTTCACAAT	CGCTGCTGTA	AGCAAACTGC	CAAGACGGGC	2280
	GTCTTCTGTA	GACCTTGGCA	GATGGACAAA	GTGGAGCAGA	GCTACCCCTG	CAGGAGCCAC	2340
	TACTACTGGG	ACGAGGACTC	AGGGCTGTGT	TTCTGAAGC	TGAAAGCTCA	GAACGAGAGA	2400
	GAGAAGTTTG	CTTTCTGTCT	CATGAAAGGC	TGTGAGAGGA	TAAAGATTAA	AGCTCTGATT	2460
25	CCAAAGAACG	CAGGCGTCAG	TGACTGCACA	GCCACAGCTT	ACCCCAAGTT	CACCGAGAGG	2520
	GCTGTCTGAT	ACGTGCCGAT	GCCCAAGAAG	CTCTTTGGTT	CTCAGCTGAA	AACAAGGAGC	2580
	CATTCTTTGG	AGGTGAAGAT	GGAGAGTTCC	AAGCAGCACT	TCTTCCACCT	CTGGAACGAC	2640
	TTGCTTTACA	TTGAAGTGGG	TGGGAAGAAG	TACCCAGGTT	CGGAGGATGG	CATCCAGGTG	2700
	GTGGTGATTG	ACGGGAACCA	AGGGCGCGTG	GTGAGCCACA	CGAGCTTCAG	GAATCCCAT	2760
30	CTGCAAGGCA	TACCAATGGC	GCTTTTCAAC	TATGTGGCGA	CCATCCCTGA	CAATTCCATA	2820
	GTGCTTATGG	CATCAAGAGG	AAGATACGTC	TCCAGAGGCC	CATGGACGAG	AGTGTCTGAA	2880
	AAGCTTGGGG	CAGACAGGGG	TCTCAAGTTG	AAAGAGCAAA	TGGCATTCTG	TGGCTTCAAA	2940
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	CAAGTTGTGC	CCATCCCTGT	GGTGAAGAAG	AAGAAGTTGT	GAGGACAGCT	GGCCGCCGGT	3060
35	GCCACCTCGT	GCTAGACTAT	GACGGTGACT	CTTGGCAGCA	GACCACTGGG	GGATGGCTGG	3120
	GTCCCCAGCG	CCCTGCCAGC	AGCTGCCTGG	GAAGGCCGTG	TTTCAGCCCT	GATGGGCCAA	3180
	GGGAAGGCTA	TCAGAGACCC	TGGTGTCTGC	ACCTGCCCTC	ACTCAAGTGT	CTACCTGGAG	3240
	CCCCTGGGGC	GGTGCTGGGC	AATGCTGGAA	ACATTCACTT	TCTGCGAGCC	TCTTGGGTGC	3300
	TTCTCTCTTA	TCTGTGCTTC	TTCACTGGGG	GTTTGGGGAC	CATATCAGGA	GACCTGGGTT	3360
40	GTGCTAGCAG	CAAGATTCGA	CTTTGGCAGG	AGCCCTGACC	CAGCTAGGAG	GTAGTCTGGA	3420
	GGGCTGTCTA	TTCAAGATTC	CCCATGGTCT	TCAGCAGACA	AGTGAGGGTG	GTAATGTAG	3480
	GAGAAAGAGC	CTTGGGCTTA	AGGAAATCTT	TACTCCTGTA	AGCAAGAGCC	AACCTCACAG	3540
	GATTAGGAGC	TGGGGTAGAA	CTGGCTATCC	TTGGGGAAGA	GGCAAGCCCT	GCCTCTGGCC	3600
	GTGTCCACCT	TTCAAGAGAG	TTTGAGTGGC	AGGTTTGGAC	TTGAGCTAGA	TGACTCTCAA	3660
45	AGGCCCTTTT	AGTTCTGAGA	TTCCAGAAAT	CTGCTGCATT	TCACATGGTA	CCTGGAACCC	3720
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	CCATTTTCAGA	GGGGAGGGCT	AGGAAGGCTT	CTTGCTTACA	GGAAATGAAG	CTGGGGGCAT	3960
50	TTTGCTGGGG	GGAGATGAGC	CAGCCTCTGG	AATGGCTCAG	GGATTACAGC	CTCCCTGCGG	4020
	CTGCTGTCTG	AAAGCTGGTA	CTACGGGGTC	GCCCTTTGCT	CACGTCTCTC	TGGCCCACTC	4080
	ATGATGGAGA	AGTGTGGTCA	GAGGGGAGCA	ATGGGCTTTG	CTGCTTATGA	GCACAGAGGA	4140
	ATTCACTCCC	CAGGCAGCCC	TGCCCTCTGAC	TCCAAGAGGG	TGAAGTCCAC	AGAAGTGAGC	4200
	TCTGTGCTTA	GGGCTTCATT	TGCTCTTCAT	CCAGGGAACT	GAGCACAGGG	GGCCTCCAGG	4260
55	AGACCTCAGA	TGTGCTCGTA	CTCCCTGGGC	CTGGGATTTC	AGAGCTGGAA	ATATAGAAAA	4320
	TATCTAGCCC	AAAGCCTTCA	TTTAAACAGA	TGGGGAAAGT	GAGCCCCCAA	GATGGGAAAG	4380
	AACCAACACG	CTAAGGGAGG	GCCCTGGGAG	CCCCACCCTA	GCCCTTGCTG	CCACACCACA	4440
	TTGCCCTCAAC	AACCGGCCCC	AGAGTGCCCC	GGCACTCCTG	AGGTAGCTTC	TGGAAATGGG	4500
	GACAAGTCCC	CTCGAAGGAA	AGGAAATGAC	TAGAGTAGAA	TGACAGCTAG	CAGATCTCTT	4560
60	CCCTCCTGCT	CCCAGCGCAC	ACAAACCCGC	CCTCCCTTGT	GTGTTGGCGG	TCCCTGTGGC	4620
	CTTCACTTTG	TTCACTACCT	GTGAGCCGAG	CCTGGGTGCA	CAGTAGCTGC	AACTCCCAT	4680
	TGGTGTACCC	TGGCTCTCCT	GTCTCTGCAG	CTCTACAGGT	GAGGCCAGC	AGAGGGAGTA	4740
	GGGCTCGCCA	TGTTTCTGGT	GAGCCAATTT	GGCTGATCTT	GGGTGTCTGA	ACAGCTATTG	4800
	GGTCCACCCC	AGTCCCTTTT	AGCTGTGCTC	TAATGCCCTG	CTCTCTCCCT	GGCCCACTTT	4860
65	ATAGAGAGCC	CAAAGAGCTC	CTGTAAGAGG	GAGAACTCTA	TCTGTGGTTT	ATAATCTTGC	4920
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	CAACCAACAA	CTCTTTCCCT	CAAAGAGGGC	CTGCCTGGCT	CCCTCCACCC	AACCTGACCC	5040
	ATGAGACTCG	GTCCAAGAGT	CCATTCCCCA	GGTGGGAGCC	AACGTTCAGG	GAGGTCTTTC	5100
	CCACCAACAA	TCTTTACAGT	GCTGGGAGGT	GACCATAGGG	CTCTGCTTTT	AAAGATATGG	5160
70	CTGCTTCAAA	GGCCAGAGTC	ACAGGAAGGA	CTTCTCCAG	GGAGATTAGT	GGTGATGGAG	5220
	AGGAGAGTTA	AAATGACCTC	ATGTCTTCTT	TGTCCACGGT	TTTGTGAGT	TTTCACTCTT	5280
	CTAATGCAAG	GGTCTCACAC	TGTGAACCA	TAGGATGTG	ATCACTTCTA	GGTGCCAGG	5340
	AATGTTGAAT	GTCTTTGGCT	CAGTTTCAAT	AAAAAAGATA	TCTATTGGA	AGTTCTCAGA	5400
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75	ACCAAGAGCC	AAATATCTAG	CATTCTCTTG	GTAGCACAAA	TTTTCTTATT	GCTTAGAAAA	5520
	TGTCTCTCT	TGTTATTCTT	GTITGTAAGA	CTTAAGTGAG	TTAGGTCTTT	AAGGAAGCA	5580
	ACGCTCTCT	GAAATGCTTG	TCTTTTTTCT	GTTCGCGAAA	TAGCTGTGTC	TTTTTCGGGA	5640
	GTTAGATGTA	TAGAGTGTTC	GTATGTAAAC	ATTTCTTGTA	GGCATACCA	TGAACAAAGA	5700
	TATATTCTCT	ATTTATTAT	TATATGTGCA	CTTCAAGAAG	TCAGTGTGAG	AGAAATAAAG	5760
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Seq ID NO: C39 DNA Sequence
Nucleic Acid Accession #: NM_014373
Coding sequence: 322.1338

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ATGTCTCCGA GCTTACTCAC ATAGCATATT GGTATATCAA AATGAAATGC AAGGAACCAA 180
AAATAACATA ATTGAAGGCA GTAAAAGTGA AATTAAATAG GAAGATCATC AGTCAAGGAA 240
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CAGTTACGTC AAACAAACCA GCCCCTAGAC GTTAACTATC TGCTATTCTT GATCATACTT 420
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TCCATTATAT TGTATTTTCA GGAATTTGTA CTTTAAAGCA TTAGGTTTAC TAAATACCAC 600
ATCTGCCTAT TTACTCAAAT TATTTCTTTT ACTTATGGCT TTTTGCATTA TCCAGTTTTC 660
15 CTGACAGCTT GTATAGATTA TTGCTGAAT TTCTCTAAAA CAACCAAGCT TTCATTTAAG 720
TGTCAAAAAT TATTTTATTT CTTTACAGTA ATTTTAAATTT GGATTTCACT CCTTGCCTAT 780
GTTTTGGGAG ACCCAGCCAT CTACCAAGC CTGAAGGCAC AGAATGCTTA TTCTGTCAC 840
TGCTCTTTCT ATGTCAGCAT TCAGAGTTAC TGGCTGTCAT TTTTCATGGT GATGATTTTA 900
TTTGTAGCTT TCAATACCTG TTGGGAAGAA GTTACTACTT TGGTACAGGC TATCAGGATA 960
20 ACTTCCTATA TGAATGAAAC TATCTTATAT TTTCTTTTTT CATCCCACTC CAGTTATACT 1020
GTGAGATCTA AAAAAATATT CTTATCCAAG CTCATTGTCT GTTTTCTCAG TACCTGGTTA 1080
CCATTGTGAC TACTTCAGGT AATCATTGTT TTACTTAAAG TTCAGATTCC AGCATATATT 1140
GAGATGAATA TTCCCTGGTT ATACTTTGTC AATAGTTTTT TCATTGCTAC AGTGATTTGG 1200
TTTAATTTGT ACAAGCTTAA TTTAAAAGAC ATTGGATTAC CTTTGGATCC ATTTGTCAAC 1260
25 TGGAAGTGCT GTTATATTC ACTTACAAAT CCTAATCTTG AGCAAAATGA AAAGCCTATA 1320
TCAATAATGA TTTGTTAATA TTATTAATTA AAAGTTACAG CTGTCATAAG ATCATAATTT 1380
TATGAACAGA AAGAACTCAG GACATATTAA AAAATAAACT GAACATAAAC AACTTTTGCC 1440
CCCTGACTGA TAGCATTTCA GAATGTGTCT TTTGAAGGGC TATACCAAGT ATTAATATAGT 1500
GTTTTATTTT AAAACAAAAA TAATTCCAAG AAGTTTTTAT AGTTATTGAG GGACACTATA 1560
30 TTACAAATAT TACTTTGTTA TTAACACAAA AAGTGATAAG AGTTAACTT TGGCTATACT 1620
GATGTTTGTG TTACTCAAAA AAACACTAGG ATGCAAACTG TTATGTAAT CTGAGATTTC 1680
ACTGACAAC TTAAGATATC AACCTAAACA TTTTATTATA ATGTTCAAT GTAAGCAAGA 1740
AAAAAAA 1749

35 Seq ID NO: C40 DNA Sequence
Nucleic Acid Accession #: BC012089
Coding sequence: 1..2571

1 11 21 31 41 51
| | | | |
40 ATGGCCCTCG TACTCGGCTC CCGTGTGCTG CTGGGGCTGT GCGGGAACCTC CTTTTCAGGA 60
GGGCAGCCTT CATCCACAGA TGCTCCTAAG GCTTGGAAAT ATGAATTGCC TGCAACAAAT 120
TATGAGACCC AAGACTCCCA TAAAGCTGGA CCCATTGGCA TTCTCTTTGA ACTAGTGAT 180
ATCTTTCTCT ATGTGCTACA GCGCGTGAT TTCCAGAAAG ATACTTTGAG AAAATTTCTTA 240
CAGAAGCATC TGAATCCAA AATTGATTAT GACAAGATTG TCTACTATGA AGCAGGATT 300
45 ATTCTATGCT GTGCTCTGGG GCTGCTGTTT ATTATTCTGA TGCCCTCTGT GGGGTATTTT 360
TTTGTATGT GTGCTGCTG TAACAAATGT GGTGGAGAAA TGCAACAGCG ACAGAAGGAA 420
AATGGGCCCT CCTGAGGAA ATGCTTTGCA ATCTCCCTGT TGGTGATTGG TATAATAATA 480
AGCATTTGCA TCTTCTATGG TTTTGTGCA AATCACCAGG TAAGAACCCG GATCAAAAGG 540
50 AGTCGGAAC TGGCAGATAG CAATTTCAAG GACTTGGGAA CTCTCTTGAA TGAACCTCCA 600
GAGCAATCA AATATATATT GGCCAGTAC AACACTACCA AGGACAAGCG GTTCACAGAT 660
CTGAACAGTA TCAATTCAAT GCTAGGAGGC GGAATTTCTT ACCGACTGAG ACCCAACATC 720
ATCCCTGTTT TTGATGAGAT TAAATCCATG GCAACAGCGA TCAAGGAGAC CAAGAGAGCG 780
TTGGAGAAC TGAACAGCAC CTGTAAGAGC TTGCAACCAAC AAAGTACACA GCCTAGCAGC 840
55 AGTCTGACCA TCGTGAACAA TAGCCTGCGG TCACTCTCA ATGACCCCTT GTGCTTGGTG 900
CATCCATCAA GTGAACCTG CAACAGCATC AGATTGTCTC TAAGCCAGCT GAATAGCAAC 960
CCTGAACCTA GGCAGCTTCC ACCGTTGGAT GCAGAATCTG ACAACGTTAA TAAOCTTCTT 1020
AGGACAGATT TGGATGGCCT GGTCCAACAG GGCATCAAT CCCTTAATGA TATACCTGAC 1080
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60 GGTTCAGATA TCGCAATGT AACTCAGCGT CTCTCTATTC AGGATATCT CTGACGATTC 1200
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65 AGTTTCTCTT TTTGCTGGAT ATTGATGATC ATTGTGTTTC TTACTTTTGT CTTTGGTGCA 1500
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TCAAAATGA AGCTCACTTT TGAACAAGTT TACAGTGACT GCAAAAAAAA TAGAGGCACT 1680
TACGGCACTC TTCACCTGCA GAACAGCTTC AATATCAGTG AACATCTCAA CATTAATGAG 1740
70 CATACTGGAA GCATAAGCAG TGAATTGGAA AGTCTGAAGG TAAATCTTAA TATCTTTCTG 1800
TTGGGTGCA GAGGAAGAAA AAACCTTCAG GATTTTGTCT CTTGTGGAAT AGACAGAATG 1860
AATTATGACA GCTACTTGGC TCAGACTGGT AAATCCCCCG CAGGAGTGAA TCTTTTATCA 1920
TTTGATATAG ATCTAGAGC AAAAGCAAAAC AGTTTGGCCC CAGGAAATTT GAGGAACCTC 1980
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CAATCACTGA GCACTCTATA CCAAAGCGTC AAGATACCTC AACGCACAGG GAATGGATTG 2100
75 TTGGAGAGAG TAACTAGGAT TCTAGCTTCT CTGGATTTTG CTCAGAATCT CATCAAAAC 2160
AATACTTCTT CTGTTATTTT TGAGGAAACT AAGAAGTATG GGAGAACAAAT AATAGGATAT 2220
TTTGAACATT ATCTCAGTGT GATCGAGTTC TCTATCAGTG AGAAAGTGGC ATCGTGCAAA 2280
CCTGTGGCCA CCGCTCTAGA TACTGCTGTT GATGCTTTTC TGTGTAGCTA CATTATCGAC 2340
80 CCCTTGAATT TGTTTTGGTT TGGCATAGGA AAAGCTACTG TATTTTACT TCCGGCTCTA 2400
ATTTTGTGGG TAAACTGGC TAAGTACTAT CGTGGAATGG ATTCGGAGGA CGTGATCGAT 2460
GATGTTGAAA CTATACCATC GAAAATATG GAAAATGGTA ATAATGGTTA TCATAAAGAT 2520
CATGATATG GTATTACAAA TCCTGTTATG ACAAGCCCAT CACAACATTA A 2571

Seq ID NO: C41 DNA Sequence

Nucleic Acid Accession #: NM_033049
Coding sequence: 28..1566

5 1 11 21 31 41 51
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GAAACTGCGA CTAGTGTGTC TACAGTAGCT GCAGCTGATA CCACTGAAAC TAATTTCCCT 180
GAACTGTCTA GCACCACAGC AATACACACT TCTTCCCAA CAGTACTTC ACCTGCTCCC 240
10 CCCATAATTA GTACACATAG TTCTCCACA ATTCTACAC CTGCTCCCCC CATAATTAGT 300
ACACATAGTT CCTCCACAAT TCCTATACCT ACTGCTGCAG ACAGTGAGTC AACCAACAAT 360
GTAAATTCAT TAGCTACCTC TGACATAATC ACCGCTTCAT CTCCTAAATGA TGGATTAAATC 420
ACAAATGGTTC CTTCTGAAAC ACAAGTAAC AATGAAATGT CCCCCACAC AGAAGACAAT 480
CAATCATGAC GGCCTCCAC TGGCACCGCT TTATTGGAGA CCAGCACCTT AACACGACA 540
15 GGTCCCGACA ATCCTTGCCA AGATGATCCC TGTGCAGATA ATTCTTATG TGTAAAGCTG 600
CATAATACAA GTTTTGTGCT GTGTTTAGAA GGTATTACT ACAACTCTTC TACATGTAAG 660
AAAGGAAGAG TATTCCCTGG GAAGATTTC GTGACAGTAT CAGAAACATT TGACCCAGAA 720
GAGAAACATT CCATGGCCTA TCAAGACTTG CATAGTGAAA TTACTAGCTT GTTTAAAGAT 780
GTATTGTGCA CATCTGTTTA TGGACAGACT GTAATCTTA CTGTAAAGCAC ATCTCTGTCA 840
20 CCAAGATCTG AATGCGTGC TGATGACAAG TTTGTTAATG TAACAATAGT AACAAATTTG 900
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AGTAGCTAAT GCAACTTTCT AACTATGAT TTGACCTTTC GGTGTGATTA TTATGGCTGT 1020
AACCAGACTG CGGATGACTG CCTCAATGCT TTAGCATGCG ATTGCAAACT TGACCTGCAA 1080
AGGCTTAACC CACAGAGCCC TTTCTGCGTT GCTCCAGTTC TCAAGTGTCC TGATGCTGCG 1140
25 AACGCACAGC ACAAGCAATG CTTAATAAAG AAGAGTGGTG GGGCCCCCTGA GTGTGCGTGC 1200
GTGCCCCGCT ACCAGGAAGA TGCTAATGGG AACTGCCAAA AGTGTGCATT TGGCTACAGT 1260
GGACTCGACT GTAAAGACAA ATTTGAGCTG ATCTCTACTA TTGTGGGCACT CATCGCTGGC 1320
ATTGTCTATC TCAGCATGAT AATTGCAATG ATTGTACAG CAAGATCAAA TAACAAAACG 1380
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30 ACAGGCTTCA CCAATCTTGG AGCAGAAGGG AGCGTCTTTC CTAAGTCTAG GATAACGGCC 1500
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TTAGAGTGTG TAGAAGACT GATGGAGAG TGAGCACCAG TAAAGATCTG GCCTCCGGGG 1680
35 TTTTCTTCCC ATCTGACATC TGCCAGCCTC TCTGAATGGA AGTTGTGAAT GTTTGCAAG 1740
AATCCAGCTC ACTTGCTAAA TAAGAATCTA TGACATTAAT TGTAGTAGAT GCTATTAGCG 1800
CTTGTCAGAG AGGTGGTTTT CTCAATCAG TACAAAGTAC TGAGACAATG GTTAGGGTTG 1860
TTTTCTTAAT TCTTTCTCTG GTAGGGCAAC AAGAACCATT TCCAATCTAG AGGAAAGCTC 1920
CCCAGCATTG CTGTCTCTG GGCACCAATT GCTCTTGAGT TAAGTGACCT AATTCCCTG 1980
GGAGACATAC GCATCACTG TGGAGGTCG AGGGGATGAG AAGGGATACC CACCACCTTT 2040
40 CAAAGGTCAC AAGCTCACTC TCTGACAAGT CAGAATAGGG ACACCTGCTTC TATCCCTCCA 2100
ATGGAGAGAT TCTGGCAACC TTTGAACAGC CCAGAGCTTG CAACCTAGCC TCACCCAAGA 2160
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45 TTTTGAATG ATCTAGAGGC AAGAGGGGCA GAGAGTAAA AACATGACCT GGTAGAAGGA 2340
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CTTCTCTCTT AGGTCCCCTC CTCCATCAGC AAGGAGGCAC TTCTCTAATC ATGCCCTCCC 2460
GAAGACTGGC TGGGAGAAGG TTTAAAAACA AAAAATCCAG GAGTAAGAGC CTTAGGTGAG 2520
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50 CCAGCGTCTC AGCCTCGGGG TGTAGGTTTC TGAGGTGTGC CATGGGGGCC TCAGCTCTCT 2640
CTGGTGACAG AGGCTCAGCT GTGGCCACCA ACACACAACC ACACACACAC AACCCACAC 2700
ACAAATGGGG GCAACCAATC CCAATCAAGC CTTTACAAA TGTATTAGT GTCTTTTCT 2760
ATTTCAATG CCTGTCTCTC TTAAGAGTTA TTTTATTGTT TATTATTATT TGTCTTGAC 2820
TGTAAATGTT GAATGTTAAT GCAATAAAGT GCCTTTGTTA GATGGTAAA AAAAAAATA 2880
55 AAAAAA 2887

Seq ID NO: C42 DNA Sequence
Nucleic Acid Accession #: NM_001432.1
Coding sequence: 167..676

60 1 11 21 31 41 51
TCACTTGCTT GATATTTCAC GTGTGACAGG GACACAGCCA ACGTGGGGTC CCTTCTAGGC 60
TGACAGCGGC TCTCCAGCCA CTGCCGCGAG CCGGTCTGCT CCGGCCCTGC CCGTGCACTC 120
TCCGCAAGCG CCTCCGCCA AGCCCCAGCG CCGCTCCCA TCGCCGATGA CCGGGGGAG 180
65 GAGGATGGAG ATGCTCTGTG CCGGCAGGGT CCGTGGCTG CTGCTCTGCC TGGGTTTCCA 240
TCTTCTACAG GCAGTCTCTA GTACAACTGT GATTCCATCA TGTATCCAG GAGAGTCCAG 300
TGATAACTGC ACAGCTTTAG TTCAGACAGA AGACAATCCA CGTGTGGCTC AAGTGTCAAT 360
AACAAAGTGT AGCTCTGACA TGAATGGCTA TTGTTTGCTG GGACAGTGCA TCTATCTGTT 420
70 GGACATGAGT CAAACTACT GCAGGTGTGA AGTGGGTTAT ACTGGTGTCC GATGTGAACA 480
CTTCTTTTAA ACGTCCACCC AACCTTTAAG CAAAGAGTAT GTGGCTTTGA CCGTGATTCT 540
TATTATTATT TTTCTTATCA CAGTCTGCTG TTCCACATAT TATTCTGCA GATGGTACAG 600
AAATCGAATA AGTAAAGAAC CAAAGAGAGA ATATGAGAGA GTTACCTCAG GGGATCCAGA 660
GTGGCCGCAA GTCTGAATAT GAGAGAGTTA CCTCAGGGGA TCCAGAGTTG CCGCAAGTCT 720
75 GAATGGCGCC ATCAAACTTA TGGGCAGGGA TAACAGTGTG CCTGGTTAAT ATTAATATT 780
CATTTTATTA ATAATATTTA TGTGGGTGCA AGTGTAGGT CAATAACACT GTATTTTAAT 840
GTACTTGAAA AATGTTTATA TTTTGTGTTT ATTTTGTACA GACTATTGCT TAATGTATAA 900
TGTGCAAGAA ATATTTAATA TCAAAAGAAA ATTGATATT TTATACAAGT AATTTCTGTA 960
GCTAAATGCT TCATTGAAAG CTTCAAGTTT TATATGCTGT GTGCACAGTG CTTAGAAGTA 1020
80 AGCAATTTCC AGGTCTATGC TCAAGAAATG TTAGCAATG ACAGATTCT GTAAGCCTAT 1080
ATATATAGTC AATCGAATT AGTAAGTATG TTTTATTATG TCCTCAATC AGTGATAATT 1140
GTTTGTAGCT TACCATGGTT TGATATGTAG TTGGCACCAT GGTATCATAT ATTAACAA 1200
TAATGCAATT AGAATTGGG AGAAGCAAT ATAGGTCTGT TGTAAACAC TACACATTG 1260
AAACAAGCTA ACCTGGGGA GTCTATGCTC TCTTCACTCA GGTCTCAGCT ATAATTCTGT 1320
TATATGAGGG GAGTGGACA GTTCCCTATG CCAACTCAGC ACTCTACAG GTACTAGTCA 1380

5	CTCATCTACC	AGATTCTGCC	TATGTAAAA	GAATTGAAAA	ACAATTTTCT	GTAATCTTTT	1440
	ATTTAAGTAG	TGGGCATTTC	ATAGCTTCAC	AATGTTCCCT	TTTTGTATAT	TACAACATTT	1500
	ATGTGAGGTA	ATTATTGCTC	AACAGACAAT	TAGAAAAAAG	TCCACACTTG	AAGCCTAAAT	1560
	TTGTGCTTTT	TAGAATATTT	TTAGACTAT	TTCTTTTAT	AGGGGCTTTG	CTGAATTTCTA	1620
	ACATTAAATC	ACAGCCCAAA	ATTGTATGGA	CTAATTATTA	TTTTAAAAATA	TATGAAGACA	1680
	ATAATTCTAC	ATGTTGTCTT	AAGATGGAAA	TACAGTTATT	TCATCTTTTA	TTCAAGGAAG	1740
	TTTTAACTTT	AATACAGCTC	AGTAAATGGC	TTCTTCTAGA	ATGTAAAGTT	ATGTATTTAA	1800
	AGTTGTATCT	TGACACAGGA	AATGGGAAAA	AACCTTAAAA	TTAATATGGT	GTATTTTTCC	1860
10	AAATGAAAAA	TCTCAATTGA	AAGCTTTTAA	AATGTAGAAA	CTTAAACACA	CCTTCTGTG	1920
	GAGGCTGAGA	TGAAAACTAG	GGCTCATTTT	CCTGACATTT	GTTTATTTTT	TGGAAGAGAC	1980
	AAAGATTCTT	TCTGCACTCT	GAGCCCATAG	GTCTCAGAGA	GTTAATAGGA	GTATTTTTGG	2040
	GCTATTGCAT	AAGGAGCCAC	TGCTGCCACC	ACTTTTGGAT	TTTATGGGAG	GCTCCTTCAT	2100
	CGAATGCTAA	ACCTTTGAGT	AGAGTCTCCC	TGGATCAGAT	ACCAGGTGAG	GGAGGATCTG	2160
15	TTCTTCTCT	ACGTTTATCC	TGGCATGTGC	TAGGGTAAAC	GAAGGCATAA	TAAGCCATGG	2220
	CTGACCTCTG	GAGCACCAGG	TGCCAGGACT	TGCTCCATG	TGTATCCATG	CATTATATAC	2280
	CCTGGTGACA	TACACAGACT	GTCTCTAAA	GTCTGGGCC	TGGCCTTAC	TATTAGSAAA	2340
	ATAAACAGAC	AAAAACAAGT	AAATATATAT	GGTCTATAC	ATATTGTATA	TATATTCTA	2400
	TACAAACATG	TATGTATACA	TGACCTTAAT	GGATCATAGA	ATTGCAGTCA	TTTGGTGCTC	2460
20	TGCTAACCAT	TATATAAAAA	CTTAAAAACA	AGAGAAAAAG	AAAAATCAAT	AGATCTAAAC	2520
	AGTTATTCTT	GTTTCCCTATT	TAATATAGCT	GAAGTCAAAA	TATGTAAAGAA	CACATTTTAA	2580
	ATACTCTACT	TACAGTTGGC	CCTCTGTGGT	TAGTTCCACA	TCTGTGGATT	CAACCAACCA	2640
	AGGACGSAAA	ATGCTTAAAA	AATAATACAA	CAACACACAA	AAATACATTA	TAACAACTAT	2700
	TTACTTTTTT	TTTTTCTTTT	TTGAGATGGA	GTCTGCTCT	GTGCCCCAGG	TTGGAGTGCA	2760
25	GTGGCAGCAT	TCGGGCTCAC	TGCAACCTCA	CCTCCCGGGT	TCAAGAGATC	CTCCTGCTTC	2820
	AGCCTCTCTG	GCAGCTGGGA	CTACAGGCGC	ATGCCACCAT	GCCAGCTAA	TTTTGTATT	2880
	TTTAGTAGAG	GCGGGGTTTC	ACCATGTTGG	CCAGGATGGT	CTCAATCTCC	TAACCTTGAG	2940
	ATCCACCTTC	CACAGCCTCC	CAAACTGCTG	GGATTACAGG	CGTGAGCCAC	CGCACGTAGC	3000
	ATTTACATTA	GGTATTACAA	GTAATGTAAA	GATGATTTAA	GTATACAGGA	GGATGTGAAT	3060
30	AGGTTATATG	CAAGCACTAT	GCCCTTTTAT	ATAAGTGACT	TGAACATCTG	TGCCCGATT	3120
	TAGTATGTGC	AGGGGGGCGA	TCTGGGAATC	AGTCCCTGT	GGATACCAAG	GTACAACTGT	3180
	ATTTATTAA	GCTTACTAGA	TGTGAGGAGA	GTCTGAATAT	TTTCAGTGAT	CTTGGCTGTT	3240
	TCAAAAAAAT	CTATTGACTT	TTCAATAAAT	CAGCTGCAAT	CCATTTATTT	CATTTACAAA	3300
	AGATTATTATG	TAAGCCTCTC	AATCTTGGTT	TTTCAGTTGA	TCTTAAGCAT	GTCAATTCTAT	3360
35	AAAAACAAGT	CATTTTGTGA	TTTTTCATCT	TTAAGAATGC	TTAAAAAAGC	TAATCCCTAA	3420
	AATAGTTAGA	TCTTTGTAAA	TGCAATATTA	ATAATAAAGT	ATGACCCACA	TTACTTTTAA	3480
	TGGGTGAAAA	TAAGACAAAA	ATAATAGTTT	TAGTGAGGAT	GGTGCTGAGT	AAACATAAAA	3540
	ACTGATTTCG	TCTCAGCTGA	TGTGTCCTGT	ACACAGTGGG	AAGATTTTAG	TTACACCTTA	3600
	GTCTAATCTC	CCCATTTTAC	AGATTTCCTA	CTATATATAT	TTCTAGAAGG	GGCTATGCA	3660
40	ATTCGAATGA	TTTGAACCCA	AAGCAACCAC	AAATGCATAA	ATGCATAATT	TATGGTCTTC	3720
	AACCAAGGCC	ACATAATAAC	CCAGTTAACT	TACTCTTTAA	CCAGGAATAT	TAAGTTCTAT	3780
	ACTAGTACT	CAAGGTTTAA	CCTTAAAAAT	AAGATTTCCT	TAACCTTAAC	CTTAAAAATG	3840
	ATATTATATT	AAACATACAT	AATACAATGT	AACCTCACTG	TTCTCTGAA	TATTTTGTGC	3900
	TCTAATCTCT	CTGCCGAAGG	TCARAAGTAT	GGGAGAATTG	GTATCTGGT	ATGACTACGT	3960
45	CTTAAGTCAG	ATTTTATATT	ATGAGTCTTT	GAGACTAAAT	TCAATCAGCA	CCAGGTATCA	4020
	AATCAACTTT	TATGAGCAAA	ATATATGATT	CTAGTGTCTG	ACTTTTGTTA	AATTCAAGTAA	4080
	TGCAGTTTTT	AAAAACCTGT	ATCTGACCCA	CTTTGTAATT	TTTGCTCCAA	TATCATTCT	4140
	GTAGACTTTT	AAAAAAAAG	TTTTTAATTT	GATGCCAAT	ATATTCTGAC	CGTTAAAAAA	4200
	TTCTTGTTCA	TATGGGAGAA	GGGGAGTAA	TGACTGTAC	AAACAGTATT	TCTGGTGTAT	4260
50	ATTTTAATGT	TTTTAAAAAG	AGTAATTTCA	TTTAAATATC	TGTTATTCAA	ATTTGATGAT	4320
	GTAAATGTA	ATATAATGTA	TTTTCTTTTT	ATTTGCACT	CTGTAATTGC	ACITTTTAAG	4380
	TTGAAGAGC	CATTTTGGTA	AACGTTTTTT	ATTAAAGATG	CTATGGAACA	TAAAGTTGTA	4440
	TTGCATGCAA	TTTAAAGTAA	CTTATTGAC	TATGAAATAT	ATCGGATTAC	TGAATTGTAT	4500
	CAATTGTGTT	GTGTTCAATA	TCAGCTTTGA	TAATTGTGTA	CCTTAAGATA	TTGAAGGAGA	4560
55	AAATAGATA	TTTACAAGAT	ATTATTAATT	TTTATTATT	TTTCTTGGGA	ATTGAAAAAA	4620
	ATTGAATAAA	ATAAAAATGC	ATTGAACATC	TGCAATTCAA	AATCTTCACT	GAC	4673

Seq ID NO: C43 DNA Sequence

Nucleic Acid Accession #: AF011468.1

Coding sequence: 257..1468

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	ATCTCAGTGG	CGGACGAGGA	CGGCGGGGAC	AAGGGGCGGC	TGGTCGGAGT	GGCGGAGCGT	120
	CAAGTCCCTT	GTGCTTCTT	CGGTCCCTGA	GTGTCTTGG	CGTCTGCTTG	TGCCCGCCCA	180
	GCGCCTTTTG	ATCCGCTCCT	GGGCACCGAG	GCGCCCTGTA	GGATACTGCT	TGTTACTTAT	240
	TACAGCTAGA	GGCATCATGG	ACCGATCTAA	AGAAAACTGC	ATTTCAAGGAC	CTGTTAAGGC	300
	TACAGCTCCA	GTGGAGGTG	CAAAACGTGT	TCTCGTACT	CAGCAAAATC	CTTGTGAGAA	360
70	TCCATTACCT	GTAAATAGTG	GCCAGGCTCA	GCGGGTCTTG	TGTCCTTCAA	ATTCCTCCCA	420
	GCGGTTCTCT	TTGCAAGCAC	AAAAGCTTGT	CTCCAGTCAC	AAGCCGGTTC	AGAATCAGAA	480
	GCAGAAGCAA	TTGCAAGGCAA	CCAGTGTACC	TCATCTGTTC	TCCAGGCCAC	TGAATAACAC	540
	CCAAAGAGC	AAGCAGCCCC	TGCCATCGGC	ACCTGAAAT	AATCCTGAGG	AGGAACCTGGC	600
	ATCAAAACAG	AAAAATGAAG	AATCAAAAAA	GAGGCACTGG	CGTTTGAAG	ACTTTGAAAT	660
75	TGGTGCCTCT	CTGGGTAAAG	GAAAGTTTGG	TAATGTTTAT	TTGGCAAGAG	AAAAGCAAG	720
	CAAGTTTATT	CTGGCTCTTA	AAGTGTATT	TAAAGCTCAG	CTGGAGAAAG	CCGGAGTGGA	780
	GCATCAGCTC	AGAAAGAGAG	TAGAAATACA	GTCCACCTTT	CGGCATCCTA	ATATTCTTAG	840
	ACTGTATGGT	TATTTCCATG	ATGCTACCAG	AGTCTACCTA	ATTCGGAAT	ATGCACCACT	900
80	TGGAACACTG	TATAGAGAAC	TTCAAGAACT	TTCAAAGTTT	GATGAGCAGA	GAACTGCTAC	960
	TTATATAACA	GAATTGGCAA	ATGCCCTGTG	TTACTGTCA	TCGAAGAGAG	TTATTCTATG	1020
	AGACATTAAG	CCAGAGAACT	TACTTCTTGG	ATCAGCTGGA	GAGCTTAAAA	TTGCAGATT	1080
	TGGGTGGTCA	GTACATGCTC	CATCTTCCAG	GAGGACCACT	CTCTGTGGCA	CCCTGGAATA	1140
	CTGCCCCCT	GAAATGATTG	AAGGTCCGAT	GCATGATGAG	AAGGTGGATC	TCTGGAGCCT	1200
	TGGAGTTCTT	TGCTATGAAT	TTTAGTTGG	GAAGCCTCCT	TTTGAAGCAA	ACACATACCA	1260

5	AGAGACCTAC	AAAAGAATAT	CACGGGTGGA	ATTACATTTC	CCTGACTTTG	TAACAGAGGG	1320
	AGCCAGGGAG	CTCATTTCAA	GACTGTTGAA	GCATAATCCC	AGCCAGAGGC	CAATGCTCAG	1380
	AGAACTACTT	GAACACCCCT	GGATCACAGC	AAATTCATCA	AAACCATCAA	ATTGCCAAAA	1440
	CAAGAATCA	GCTAGCAAAAC	AGTCTTAGGA	ATCGTGACGG	GGGAGAAATC	CTTGAGCCAG	1500
	GGCTGCCATA	TAACCTGACA	GGAACTAGCT	ACTGAAGTTT	ATTTTACCAT	TGACTGCTGC	1560
	CCTCAATCTA	GAACGCTACA	CAAGAAATAT	TTGTTTTACT	CAGCAGGTGT	GCCTTAACCT	1620
	CCCTATTCTA	AAAGCTCCAC	ATCAATAAAC	ATGACACTCT	GAAGTGAAAG	TAGCCACGAG	1680
	AATTGTGCTA	CTTATACTGG	TTCATATCT	GGAGGCAAGG	TTGAGCTGCA	GCCGCCCCGT	1740
10	CAGCCTGTGC	TAGGCACTGGT	GTCTTCACAG	GAGGCAATC	CAGAGCCTGG	CTGTGGGGAA	1800
	AGTGACCACT	CTGCCTGAC	CCGATCAGT	TAAGGAGCTG	TGCAATAACC	TTCTCTAGTAC	1860
	CTGAGTGAGT	GTGTAACCTA	TTGGGTTGGC	GAAGCCTGGT	AAAGCTGTTG	GAATGAGTAT	1920
	GTGATTCTTT	TTAAGTATGA	AAATAAAGAT	ATATGTACAG	ACTTGTAATT	TTTCTCTGGT	1980
	GGCATTCTCT	TAGGAATGCT	GTGTGTCTGT	CCGCCACCCC	GGTAGGCCCTG	ATTGGGTTTC	2040
15	TAGTCTCTCT	TAACCACTTA	TCTCCCATAT	GAGAGTGTGA	AAAATAGGAA	CACGTGCTCT	2100
	ACCTCCATTT	AGGGATTGGC	TTGGGATACA	GAAGAGGCCA	TGTGTCTCAG	AGCTGTTAAG	2160
	GGCTTATTTT	TTTAAACAT	TGGAGTCATA	GCATGTGTGT	AAACTTTAAA	TATGCAAAATA	2220
	AATAAGTATC	TATGTCTAAA	AAAAAATAAA	AAA			2253

Seq ID NO: C44 DNA Sequence

Nucleic Acid Accession #: NM_013372

Coding sequence: 63..617

25	1	11	21	31	41	51	
	GGGGCCGCAC	TCAGCGCCAC	GCCTCGAAAG	CGCAGGCCCC	GAGGACCCGC	CGCACTGACA	60
	GTATGAGCCG	CACAGCCTAC	ACGGTGGGAG	CCCTGCTTCT	CCTCTTGGGG	ACCCCTGCTGC	120
	CGGCTGTCTGA	AGGGAATAAG	AAAGGGTCCC	AAGGTGCCAT	CCCCCGCCA	GACAAAGGCC	180
	AGCACAATGA	CTCAGAGCAG	ACTCAGTCGC	CCCAGCAGCC	TGGCTCCAGG	AACCGGGGCC	240
30	GGGGCCGAGG	GCGGGGCACT	GCCATGCCCG	GGGAGGAGGT	GCTGGAGTCC	AGCCAAGAGG	300
	CCCTGCTAGT	GACGAGGGGC	AAATACCTGA	AGCGAGACTG	GTGCAAAACC	CAGCCGCTTA	360
	AGCAGACCAT	CCACGAGGAA	GGCTGCAACA	GTGCAACCAT	CATCAACCGC	TTCTGTTACG	420
	GCCAGTGCAA	CTCTTTCTAC	ATCCCCAGGC	ACATCCGGAA	GGAGGAAGGT	TCCTTTCAGT	480
	CTGTCTCTCT	CTGCAAGCCC	AAGAAATTCA	CTACCATGAT	GGTCACACTC	AACCTGCCCTG	540
35	AACCTACAGC	ACCCTACCAAG	AAGAAGAGAG	TCACACGTGT	GAAGCAGTGT	CGTTGCATAT	600
	CCATCGATTT	GGATTAAAGC	AAATCCAGGT	GCACCCAGCA	TGTCCTAGGA	ATGCAGCCCC	660
	AGGAAGTCCC	AGACCTAAAA	CAACCAAGAT	CTTACTTGGC	TTAAACCTAG	AGGCCAGAGG	720
	AACCCCCAGC	TGCCTCTCTG	CAGGAGCCCTG	CTTGTGCGTA	GTTCTGTGTC	ATGAGTGTGG	780
	ATGGGTGCTC	GTGGGTGTTT	TTAGACACCA	GAGAAACAC	AGTCTCTGCT	AGAGAGCACT	840
40	CCCTATTTTG	TAAACATATC	TGCTTTAATG	GGGATGTACC	AGAAACCCAC	CTCACCCCGG	900
	CTCACATCTA	AAGGGGCGGG	GCCGTGGTCT	GGTCTGACT	TTGTGTTTTT	GTGCCCTCCT	960
	GGGGACCGA	ATCTCCTTTC	GGAAATGAAT	TTCAATGGAAG	AGGCTCCTCT	GAGGGCAAGA	1020
	GACCTGTGTT	AGTGCTGCAT	TCGACATGGA	AAAGTCTCTT	TAACTGTGTC	TTGCATCCTC	1080
	CTTCTCCTCT	CCCTCTCACA	ATCCATCTCT	TCCTAAGTTG	ATAGTGACTA	TGTCAGTCTA	1140
45	ATCTCTGTGT	TGCCAAGGTT	CCTAAATTAA	TTCACTTAAC	CATGATGCAA	ATGTTTTTCA	1200
	TTTTGTGAAG	ACCCCTCCAGA	CTCTGGGAGA	GGCTGGTGTG	GGCAAGGACA	AGCAGGATAG	1260
	TGGAGTGAGA	AAGGGAGGGT	GGAGGGTGAG	GCCAAATCAG	GTCCAGCAAA	AGTCAGTAGG	1320
	GACATGTGAG	AGGCTTGAAA	GGCCAATACC	AGAACACAGG	CTGATGCTTC	TGAGAAAGTC	1380
	TTTTCTAGT	ATTTAACAGA	ACCCAAGTGA	ACAGAGGAGA	AATGAGATTG	CCAGAAAGTG	1440
50	ATTAACCTTG	GCCGTTGCAA	TCTGCTCAAA	CCTAACACCA	AACGAAAAAC	ATAAATACTG	1500
	ACCACCTCTA	TGTTCCGACC	CAAGCAAGTT	AGCTAAACCA	AACCAACTCC	TCTGCTTTGT	1560
	CCCTCAGGTG	GAAAAGAGAG	GTAGTTTAGA	ACTCTCTGCA	TAGGGGTGGG	AAATTAATCAA	1620
	AAACCKCAGA	GGCTGAAATT	CCTAATACCT	TTCTTTTATC	GTGGTTATAG	TCAGCTCAIT	1680
	TCCATTCCAC	TATTTCCCAT	AATGCTTCTG	AGAGCCACTA	ACTTGATTGA	TAAAGATCCT	1740
55	GCCTCTGCTG	AGTGATCCTG	ACAGTAAGTC	TAAAGATGAR	AGAGTTTAGG	GACTACTCTG	1800
	TTTTAGCAAG	ARATATTKTG	GGGGTCTTTT	TGTTTTAACT	ATTGTGAGGA	GATTGGGCTA	1860
	RAGAGAAGAC	GAGGAGAGTA	AGGAAATAAA	GGGRATTGCC	TCTGGCTAGA	GAGTAAGTTA	1920
	GGTGTTAATA	CCTGGTAGAA	ATGTAAGGGA	TATGACCTCC	CTTCTTTTAT	GTGCTCACTG	1980
	AGGATCTGAG	GGGACCCCTG	TAGGAGAGCA	TAGCATCATG	ATGTATTAGC	TGTTTCATCTG	2040
60	CTACTGGTTG	GATGGACATA	ACTATTGTAA	CTATTGAGTA	TTTACTGGTA	GGCAGCTGCC	2100
	TCTGATTAAA	CTTGGCCTAC	TGGCAATGGC	TACTTAGGAT	TGATCTAAGG	GCCAAAGTGC	2160
	AGGGTGGGTG	AACCTTTATTG	TACTTTGGAT	TGTGTTAAAC	TGTTTTCTTC	AAGCCTGAGG	2220
	TTTTATATAC	AAACTCCCTG	AATACTCTTT	TTGCTTTGTA	TCTTCTCAGC	CTCCTAGCCA	2280
	AGTCCCTATG	AATATGGAAA	ACAAACACTG	CAGACTTGAG	ATTCAGTTGC	CGATCAAGGC	2340
65	TCTGGCATTG	AGAGAACCCCT	TGCAACTCGA	GAAGCTGTTT	TTATTTCTGT	TTTGTTTTGA	2400
	TCCAGTGCTC	TCCCATCTAA	CAACTAAACA	GGAGCCATT	CAAGGCGGGA	GATATTTTAA	2460
	ACACCCAAAA	TGTTGGGTCT	GATTTTCAAA	CTTTTAAACT	CACACTGAT	GATTCTCAGC	2520
	CTAGGCGAAT	TGTGCAAAAC	ACATAGTGTG	TGTGTTTGT	ATACACTGTA	TGACCCCAAC	2580
	CCAAATCTTT	GTATTGTCCA	CATTCTCCAA	CAATAAGCA	CAGAGTGGAT	TTAATTAAAG	2640
70	ACACAAATGC	TAAGGCAGAA	TTTTGAGGGT	GGGAGAGAAG	AAAAGGGAAA	GAAGCTGAAA	2700
	ATGTAAAAAC	ACCACAGGGA	GGAAAAATGA	CATTGAGAAC	CAGCAAAACAC	TGAATTTCTC	2760
	TGTTGTTTTT	AACCTCTGCCA	CAAGAATGCA	ATTTGTTTAA	TGGAGATGAC	TTAAGTTGGC	2820
	AGCAGTAATC	TTCTTTTAGG	AGCTTGTACC	ACAGTCTTGC	ACATAAGTGC	AGATTGTGGT	2880
	CAAGTAAGA	GAATTTCTCT	AACACTAACT	TCACCTGGAT	AATCAGCAGC	GTAACCTACC	2940
75	TAAAAGCATA	TCACTAGCCA	AAGAGGGAAA	TATCTGTCTT	TCTTACTGTG	CCTATATTAA	3000
	GACTAGTACA	AATGTGGTGT	GTCTTCCAAC	TTTCATTGAA	AATGCCATAT	CTATACCATA	3060
	TTTTATTGGA	GTCACTAGTG	ATGTAATGAT	ATATTTTTC	ATTATTATAG	TAGAATATTT	3120
	TTATGGCAAG	ATATTTGTGG	TCTTGATCAT	ACCTATTAAA	ATAATGCCAA	ACACCAAATA	3180
	TGAATTTTAT	GATGTACACT	TTGTGCTTGG	CATTAAAGAA	AAAAAACACA	CATCCTGGAA	3240
80	GTCTGTAAGT	TGTTTTTTGT	TACTGTAGGT	CTTCAAAGTT	AAGAGTGTA	GTGAAAAATC	3300
	TGGAGGAGAG	GATAATTTCC	ACTGTGTGGA	ATGTGAATAG	TTAAATGAAA	AGTTATGGTT	3360
	ATTTAATGTA	ATTATTACTT	CAAACTCTTT	GGTCACTGTG	ATTTCAGACA	TGTTTTCTTT	3420
	TTCTCCTTTA	TATGACCTTT	TCTGAGTTGG	GCAAAGAAGA	AGCTGACACA	COGTATGTTG	3480
	TTAGAGTCTT	TTATCTGGTC	AGGGGAAACA	AAATCTTGAC	CCAGCTGAAC	ATGCTCTCCT	3540
	GAGTCAGTGC	CTGAATCTTT	ATTTTTTAAA	TTGAATGTTC	CTTAAAGGTT	AACATTTCTA	3600

5 AAGCAATATT AAGAAAGACT TTAATGTGTA TTTTGAAGA CTTACGATGC ATGTATACAA 3660
ACGAATAGCA GATAATGATG ACTAGTTTAC ACATAAAGTC CTTTAAAGGA GAAATCTTAA 3720
AATGAAAGT GGATAAACAG AACATTTATA AGTGATCAGT TAATGCCTAA GAGTGAAGT 3780
AGTTCTATTG ACATTCCTCA AGATATTTAA TATCAACTGC ATTATGTATT ATGTCTGCTT 3840
AAATCATTTA AAAACGGCAA AGAATTATAT AGACTATGAG GTACCTTGCT GTGTAGGAGG 3900
ATGAAAGGGG AGTTGATAGT CTCATAAAAC TAATTTGGCT TCAAGTTTCA TGAATCTGTA 3960
ACTAGAATTT AATTTTCACC CCAATAATGT TCTATATAGC CTTTGTCTAA GAGCAACTAA 4020
TAAATTAAAC CTATCTTTTC AAAAAAAA 4049

10 Seq ID NO: C45 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 200..2932

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ATACCTTTCTT TCCAAACAGC ATAAGAAGTG ATTGAGCCAC AAGTATACCT AAGGAAGGGC 120
TCCCTCGAGT TCTGGTGTGA AGAGATAAAT CACCACTCAC AGACTATGCA CCGACTGCT 180
GCTGTTCTAGT CCAGGAGAAA TGAAAGTTGG AGTGCTGTGG CTCATTTCTT TCTTCACTT 240
20 CACTGACGGC CACGGTGGCT TCCTGGGGA AATGATGGC ATCAAAACAA AAAAAGAACT 300
CATGTGGAAT AAGAAAAAAC ATCTAGGCCC AGTCGAAGAA TATCAGCTGC TGCTTCAGGT 360
GACCTTATAGA GATTCCAAAG AGAAAAGAGA TTTGAGAAAT TTTCTGAAGC TCTTGAAGCC 420
TCCATTATTA TGCTCACATG GGCTAATTAG AATTATCAGA GCAAGGGCTA CCACAGACTG 480
CAACAGCGTG AATGGAGTCC TGCAAGTTAC CTGTGAAGAC AGCTACACCT GGTTCCTCC 540
25 CTCATGSCCTT GATCCCCAGA ACTGCTACCT TCACACGGCT GGAGCACTCC CAAGCTGTGA 600
ATGTCACTCT AACAACTTCA GCCAGAGTGT CAATTTCTGT GAGAGAACAA AGATTTGGGG 660
CACTTTCAAA ATTAATGAAA GGTTTACAAA TGACCTTTTG AATTCATCTT CTGCTATATA 720
CTCCAAATAT GCAATGAGAA TTGAAATTCA ACTTAAAAA GCATATGAAA GAATTCGAAG 780
TTTTGAGTCG CTTGAGTCA CCAATTTCG AATGGAAGC ATCGTTGCTG GGTATGAAGT 840
30 TGTGSGCTCC AGCAGTGCAT CTGAATCTGT GTCAGCCATT GAACATGTTG CCGAGAAGGC 900
TAAGACAGCC CTTCACAAGC TGTTTCCATT AGAAGACGGC TCTTTCAGAG TGTTCCGAAA 960
AGCCCACTGT AATGACATTG TCTTTGGATT TGGGTCCAAG GATGATGAAT ATACCTGACC 1020
CTGACAGCAGT GGCTACAGGG GAAACATCAC AGCCAGTGT GAGTCTCTG GGTGGCAGGT 1080
CATCAGGGAG ACTTGTGTGC TCTCTCTGCT TGAAGAACTG AACAAGAATT TCAGTATGAT 1140
35 TGTAGGCAAT GCCACTGAGG CAGCTGTGTC ATCCTTCTGT CAAATCTTT CTGTCATCAT 1200
TGGGCAAAAC CCATCAACCA CAGTGGGAAA TCTGGCTTGG GTGGTGTGCA TTCTGAGCAA 1260
TATTTCTATCT TCTGCACTGG CCAGCCATTT CAGGGTGTCC AATTCACAAA TGGAGGATGT 1320
CATCAGTATA GCTGCAATA TCCTTAATTC AGCCTCAGTA ACCAATCGGA CAGTCTTACT 1380
GCGGAAGAAA AAGTATGCCA GCTCAGGTT ACTAGAGACA TTAGAAAACA TCAGCACTCT 1440
40 GGTGCTCTCG ACAGCTCTTC CTCTGAATTT TTCTCGGAAA TTCATTGACT GGAAGGGAT 1500
TCAGTGAAC AAAAGCCAAAC TCAAAAGGGG TTACAGCTAT CAGATTAAAA TGTGTCCCA 1560
AATATACATCT ATTCCCATCA GAGGCCGTGT GTTAATTGGG TCAGAACCAAT TCCAGAGATC 1620
CCTTCCAGAA ACTATTATCA GCATGGCCTC GTTGACTCTG GGAACATTTC TACCCGTTTC 1680
CAAAAATGGA AATGCTCAGG TCAATGGACC TGTGATATCC ACGTTATTTC AAAACTATTC 1740
45 CATAAATGAA GTTTTCTAT TTTTTCCTAT TTTTTCCTAT GATAGAGTCA AACCTGAGCC AGCCTCATTG 1800
TGTGTTTGGG GATTTTCAGT ATTGTCAGTG GAACGATGCA GGCTGCCACC TAGTGAATGA 1860
AACTCAAGAC ATTGTGACGT GCCAATGTAC TCACCTGACC TCCTTCTCCA TATGATGTC 1920
ACCTTTTGTG CCTCTACAA TCTTCCCGGT GTTAAATGGG ATCACTATG TGGGACTGGG 1980
TATCTCCATT GGAAGTCTCA TTTTATGCCG GATCATCGAG GCTTTGTTT GGAAGCAGAT 2040
50 TAAAAAAGC CAAACCTCTC ACACAGCTCG TATTTGCATG GTGAACATAG CCGTGTCCCT 2100
CTTGATTGCT GATGCTGTGT TTATTGTTGG TGCCACAGTG GACACCAAGG TGAACCCCTC 2160
TGGAGTCTGC ACAGCTGCTG TGTCTTTAC ACACCTCTTC TACCTCTCT TGTCTCTCTG 2220
GATGCTCATG CTGTCATCG TGCTGGCTTA CCGGATCATC CTGCTGTTC ATCATATGCG 2280
CCAGCATTTG ATGATGGCTG TTGGATTGCT CCGGTTTAT GGGTGCCTC TCATTATATC 2340
55 TGTCAATTACC ATTGCTGTCA CGCAACCTAG CAATACCTAC AAAAGGAAAG ATGTGTGTTG 2400
GCTTAACCTG TCAATGGAA GCAAAACCTC CCGGCTTTT GTTGTCCCTG CACTGGCTAT 2460
TGTGCTGTG AACTTCGTTG TGGTGTGCT AGTTCTCACA AAGCTCTGGA GGCGGACTGT 2520
TGGGGAAGA CTGATGCTGG ATGACAGGC CACCATCATC CGCGTGGGGA AGAGCCTCT 2580
CATTCGACC CCTCTGCTAG GGCTCAGCTG GGGCTTTGGA ATAGGAACAA TAGTGGACG 2640
60 CCAGAATCTG GCTTGGCATG TTATTTTTCG TTTACTCAAT GCATTCAGG GATTTTAT 2700
CTTATGCTTT GGAATACTCT TGGACAGTAA GCTGCGACAA CTTCTGTTCA ACAAGTTGCT 2760
TGCTTAAGT TCTTGGAAAG AAACAGAAAA GCAAACTCA TCAGATTAT CTGCCAAACC 2820
CAAATTCCTA AAGCCTTTCA ACCCATGCA AAACAAGGC CATTATGCAT TTTCTCATC 2880
TGGAGATTC TCCGACAACA TCATGCTAAC TCAGTTTGTG TCAATGAAT AAGCAAGGA 2940
65 ATCATAAAAT CAAGAAAAA TTTCCAGAAC AACTTGACAT TTAGAGACAA ATGTCAATGA 3000
AGAAATATG CTCAGTATTC GATCGGTTT TCTGATTAG GGGTCTGGGA ATAAACAAG 3060
AATGCTCAG TGGCTTCA 3078

70 Seq ID NO: C46 DNA Sequence
Nucleic Acid Accession #: NM_000584.1
Coding sequence: 75..374

75 1 11 21 31 41 51
AGCAGAGCAC ACAAGCTTCT AGGACAAGAG CCAGGAAGAA ACCACCGGAA GGAACCATCT 60
CACTGTGTGT AAACATGACT TCCAAGCTGG CCGTGGCTCT CTGGCAGCC TTCTGATTT 120
CTGAGCTCT GTGTGAAGGT GCAGTTTGG CAAGGAGTGC TAAAGAACT AGATGTCAGT 180
GCATAAAGAC ATACTCCAAA CCTTCCACCC CCAAAATTAT CAAAGAACTG AGAGTGATTG 240
AGAGTGGACC ACATCGCSCC AACACAGAAA TTATTGTAAA GCTTCTGAT GGAAGAGAGC 300
TCTGTCTGGA CCCCAGGAAA AACTGGGTGC AGAGGGTTGT GGAGAAGTTT TTGAAGAGGG 360
CTGAGAAATC ATAAAAAAT TCATTCTCTG TGGTATCCAA GAATCAGTGA AGATGCCAGT 420
GAAACTTCAA GCAAACTCAT TTCAACACT CATGTATTGT GTGGGTCTGT TGTAGGGTTG 480
CCAGATGCAA TACAAGATTC CTGTTAAAT TTGAATTCA GTAAACAATG AATAGTTT 540
CATTGTACCA TGAATATATC AGAACATCT TATATGTAAA GTATTATTTA TTTGAATCTA 600

5	CAAAAAACAA	CAAATAATTT	TTAAATATAA	GGATTTTCCT	AGATATTGCA	CGGGAGAATA	660
	TACAAATAGC	AAAATTGAGC	CAAGGGCCAA	GAGAATATCC	GAACCTTAAT	TTCAGGAATT	720
	GAATGGGTTT	GCTAGAATGT	GATATTTGAA	GCATCACATA	AAAATGATGG	GACAATAAAT	780
	TTTGCCATAA	AGTCAAATTT	AGCTGGAAAT	CCTGGATTTT	TTTCTGTATA	ATCTGGCAAC	840
	CCTAGTCTGC	TAGCCAGGAT	CCACAAGTCC	TTGTTCCACT	GTGCTCTGGT	TTCTCCTTTA	900
	TTTCTAAGTG	GAAAAAGTAT	TAGCCACCAT	CTTACCTCAC	AGTGATGTTG	TGAGGACATG	960
	TGGAAGCACT	TTAAGTTTTT	TCATCATAAC	ATAAATTATT	TTCAAGTGTA	ACTTATTAAAC	1020
	CTATTTATTA	TTTATGTATT	TATTTAAGCA	TCAAATATTT	GTGCAAGAAAT	TTGGAAAAAT	1080
10	AGAAGATGAA	TCAATTGATTG	AATAGTTATA	AAGATGTTAT	AGTAAATTTA	TTTTATTTTA	1140
	GATATTAAAT	GATGTTTTAT	TAGATAAATT	TCAATCAGGG	TTTTTAGATT	AAACAAGAA	1200
	ACAATTGGGT	ACCCAGTTAA	ATTTTCATTT	CAGATAAACA	ACAAATAAAT	TTTTAGTATA	1260
	AGTACATTAT	TGTTTATCTG	AAAGTTTTAA	TTGAACTAAC	AATCCTAGTT	TGATACTCCC	1320
	AGTCTTGTC	TTGCCAGCTG	TGTTGGTAGT	GCTGTGTGTA	ATTACGGAAT	AATGAGTTAG	1380
15	AACTATTAAA	ACAGCCAAAA	CTCCACAGTC	AATATTAGTA	ATTTCTTGCT	GGTGAAGACT	1440
	TGTTTATTAT	GTACAAATAG	ATTTCTTATA	TATTATTATA	ATGACTGCAT	TTTTAAATAC	1500
	AAGGCTTTAT	ATTTTAACT	TTAAGATGTT	TTTATGTGCT	CTCCAAATTT	TTTTTACTGT	1560
	TTCTGATTGT	ATGGAAATAT	AAAAGTAAAT	ATGAAACATT	TAAATATATA	TTTGTGTGCA	1620
	AAGTAAAAAA	AAAAAAA					1639

Seq ID NO: C47 DNA Sequence

Nucleic Acid Accession #: NM_005603.1

Coding sequence: 1..3756

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30	GAACCCAGAAC	AAAACCGAGT	CAACAGGGAA	GCAGAGGAGA	ACCGGAGAGC	ATTCAGAAAA	180
	GAATGTACAT	GGCAAGTCAA	AGCAAAACGAT	CGCAAGTACC	ACGAACAACC	TCACITTTATG	240
	AACACAAAAT	TCTTGTGTAT	TAAGGAGAGT	AAATATGCGA	ATAATGCAAT	TAAAACATAC	300
	AAGTACAAAG	CATTTACCTT	TATACCAATG	AATCTGTTTG	AGCAGTTTAA	GAGAGCAGCC	360
	AATTTATATT	TCCTGGCTCT	TCTTATCTTA	CAGGCAGTTC	CTCAAAATCTC	TACCTCTGGCT	420
	TGGTACACCA	CACTAGTGCC	CCTGCTTGTT	GTGCTGGGCG	TCACGTCAAT	CAAAGACCTG	480
35	GTGGACGATG	TGGCTCGCCA	TAAATGGAT	AAGGAAATCA	ACAATAGGAC	GTGTGAAGTC	540
	ATTAAGGATG	GCAGGTTCAA	AGTTGCTAAG	TGGAAGAAAA	TTCAAGTTGG	AGACGTCATT	600
	CGTCTGAATA	AAAATGATTT	TGTTCCAGCT	GACATTCTCC	TGCTGTCTAG	CTCTGAGCCT	660
	AACAGCCTCT	GCTATGTGGA	AACAGCAGAA	CTGGACGGAG	AAACCAATTT	AAAAATTAAG	720
40	ATGTCACTTG	AAATCACAGA	CCAGTACCTC	CAAAGAGAAG	ATACATTGGC	TACATTTGAT	780
	GGTTTTATTG	AATGTGAAGA	ACCCAATAAC	CGACTAGATA	AGTTTACAGG	AACACTATTT	840
	TGGAGAAACA	CAAGTTTTCC	TTTGGATGCT	GATAAAATTT	TGTTACGTGG	CTGTGTAATT	900
	AGGAACACCG	ATTTCTGCCA	CGGCTTAGTC	ATTTTTCAG	GTCTGACAC	TAAATAATG	960
	AAGAATAGTG	GGAAAAACAG	ATTTAAAAAG	ACTAAAAATG	ATTACTTGAT	GAACATACATG	1020
45	GTTTACACGA	TCTTTGTGTG	TCTTATTCTG	CTTTCTGCTG	GTCTTGCCAT	CGGCCATGCT	1080
	TATTGGGAAG	CACAGGTGGG	CAATTCTCTC	TGGTACCTCT	ATGATGGAGA	AGACGATACA	1140
	CCCTCCTACC	GTGGATTCTC	CATTTCTCTG	GGCTATATCA	TTGTTCTCAA	CACCATGGTA	1200
	CCCATCTCTC	TCTATGTCAG	CGTGGAGGTG	ATTCGTCTTG	GACAGAGTCA	CTCTCATCAAC	1260
	TGGGACCTGC	AAATGTACTA	TGCTGAGAAG	GACACACCGG	CAAAAGCTAG	AACCACCAAC	1320
50	CTCAATGAAC	AGCTCGGGCA	GATCCATTAT	ATCTTCTCTG	ATAAGACGGG	GACACTACCA	1380
	CAAAATATCA	TGACCTTTAA	AAAGTGCTGT	ATCAACGGGC	AGATATATGG	GGACCATCGG	1440
	GATGCCCTCT	AACCAACCA	CAACAAAATA	GAGCAAGTTG	ATTTTAGCTG	GAATACATAT	1500
	GCTGATGGGA	AGCTTGCATT	TTATGACCAC	TATCTTATTG	AGCAAAATCCA	GTCAAGGAAA	1560
	GAGCCAGAGG	TACGACAGTT	CTTCTTCTTG	CTCGCAGTTT	GCCACACAGT	CATGTTGGAT	1620
55	AGGACTGATG	GTAGCTTCAA	CTACCAAGCA	GCCTCTCCCG	ATGAAGGTGC	CCTGGTAAAC	1680
	GCTGCCAGGA	ACTTTGGCTT	TGCCCTTCTC	GCCAGGACCC	AGAACACCAT	CACCATCAGT	1740
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	AAGCGAATGT	CTATCATTTG	AAGAACCCCA	GAAGGCAATA	TCAGCTTTTA	CTGTAAAGGT	1860
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60	GATGCCCTGG	ATATCTTTTG	AAATGAAACT	CTTAGAACCC	TATGCCCTTG	CTACAAGGAA	1980
	ATTGAAGAAA	AAGATTATAC	AGAATGGAAT	AAAAAGTTTA	TGGCTGCCAG	TGTGGCCTCC	2040
	ACCAACCGGG	ACGAAGCTCT	GGATAAAGTA	TATGAGGAGA	TTGAAAAAGA	CTTAATTCTC	2100
	CTGGGAGCTA	CAGCTATTGA	AGACAAGCTA	CAGGATGGAG	TTCCAGAAAC	CATTTCAAAA	2160
	CTTGCAAAAG	CTGACATTAA	GATCTGGGTG	CTTACTGGAG	ACAAAAAGGA	AACCTGCTGAA	2220
65	AATATAGGAT	TGCTTGTGTA	ACTTCTGACT	GAAGACACCA	CCATCTGCTA	TGGGGAGGAT	2280
	ATTAATCTCT	TTCTTCATGC	AAGGATGGAA	AACCAGAGGA	ATAGAGGTGG	CGCTACGCA	2340
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	ATCACTGGTT	CTTGGTTGAA	TGAAATCTTT	CTCGAGAAAA	AGACCAAGAG	AAATAAGATT	2460
	CTGAAGCTGA	AGTTCCCAAG	AACAGAAGAA	GAAAGACGGA	TGCGGACCCA	AAGTAAAGGG	2520
70	AGGCTAGAAG	CTAAGAAAGA	GCAGCGGCAG	AAAAACTTTG	TGGACCTGGC	CTGCGAGTGC	2580
	AGCGCAGTCA	TCTGCTGCGG	CGTCAACCCC	AAGCAGAAGG	CCATGGTGGT	GGACCTGGTG	2640
	AAGAGGTACA	AGAAAGCCAT	CACGCTGGCC	ATCGGAGATG	GGGCCAATGA	CGTGAACATG	2700
	ATCAAAACTG	CCCACTTTGG	CGTTGGAATA	AGTGGACAAG	AAGGAATGCA	AGCTGTCATG	2760
	TGAGTGACTT	ATTCCTTTGC	TCAGTTCCGA	TATCTGCAGA	GGCTACTGCT	GGTGCATGGC	2820
75	CGATGGTCTT	ACATAGGAT	GTGCAAGTTC	CTACGATACT	TCTTTTACAA	AAACTTTGCC	2880
	TTTACTTTGG	TTCAATTTCTG	GTACTCCTTC	TTCAATGGCT	ACTCTGCGCA	GACTGCATAC	2940
	GAGGATTGGT	TCATCACCTC	CTACAACGTG	CTGTACACCA	GCCTGCCCCG	GCTCCTCATG	3000
	GGGCTGTCTG	ACCAGGATGT	GAGTGACAAA	CTGAGCCTCC	GATTCCCTGG	GTTATACATA	3060
	GTGGGACAAA	GAGACTTACT	ATTCAACTAT	AAGAGATTCT	TTGTAAAGCTT	GTTCATGGGG	3120
80	GTCCATAACT	CGATGATCCT	CTTCTTCATA	CCTCTTGAG	CTTATCTGCA	AACCGTAGGG	3180
	CAGGATGGAG	AGGCACCTTC	CGACTACCAG	TCTTTTGCCG	TCACCATTGC	CTCTGCTCTT	3240
	GTAATAACAG	TCAATTTCCA	GATTGGCTTG	GATACCTCTT	ATTGGACTTT	TGTGAATGCT	3300
	TTTTCAATTT	TTGGAAGCAT	TGCACTTTAT	TTTGGCATCA	TGTTTGACTT	TCATAGTGCT	3360
	GGAATACATG	TTCTCTTTCC	ATCTGCATTT	CAATTTACAG	GCACAGCTTC	AAACGCTCTG	3420
	AGACAGCCAT	ACATTTGGTT	AACTATCATC	CTGACTGTTG	CTGTGTGCTT	ACTACCCGTC	3480

5 GTTGCCATTC GATTCTGTGC AATGACCATC TGGCCATCAG AAAAGTGATAA GATCCAGAAG 3540
CATCGCAAGC GGTGAAGGC GGAGGAGCAG TGGCAGCGAC GGCAGCAGGT GTTCCGCCGG 3600
GGCGTGTCAG CGCGGCGCTC GGCCTACGCC TTCTCGCACC AGCGGGGCTA CGCGGACCTC 3660
ATCTCCTCCG GCGCAGCAT CGCAAGAAG CGCTCGCGC TTGATGCCAT CGTGGCGGAT 3720
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Seq ID NO: C48 DNA Sequence
Nucleic Acid Accession #: XM_044533
Coding sequence: 238..2751

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1 11 21 31 41 51
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AGGGGCTGAG TTTGCCAGGG CCACTTGAC CTTGTTCCC ACCTCCGCG CCCAGGTCC 120
15 GGAGGCGGGG GCGCCGCGGG CGACTCGGG GCGGACCGCG GGGCGGAGCT GCGCCCGTG 180
AGTCCGCGCG AGCCACCTGA GCGCGAGCGG CGGGACACCG TCGCTCCTGC TCTCGGAATG 240
CTGCGCACCG CGATGGGCTT GAGGAGCTGG CTGCGCGCCC CATGGGGCGC GCTGCCGCTC 300
CGGCCACCGC TGCTGCTGCT CTTGCTGCTG CTGCTCCTGC TGCAGCGCGC GCCTCCGACC 360
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20 TTGGAAGCTG AACACATCTC CAACTACACA GCGCTTCTGC TGAGCAGGGA TGGCAGGACC 480
CTGTACGTGG GTGCTCGAGA GCGCTCTTTT GCACTCAGTA GCAACCTCAG CTTCTGCGCA 540
GGCGGGGAGT ACCAGAGCTT GCTTTGGGGT GCAGACGCG AGAAGAAACA GCAGTGCAGC 600
TTCAAGGGCA AGGACCCACA GCGCGACTGT CAAACTACA TCAAGATCCT CTTCCGCTC 660
AGCGGCGCTC ACCTGTTTCA CTGTGGCACA GCAGCCTTCA GCGCCATGTG TACCTACATC 720
25 AACATGGAGA ACTTCACCTT GCGAAGGAG GAGAAGGGA ATGTCTCTCT GGAAGATGGC 780
AAGGGCGGTT GTCCCTTCGA CCGGAATTTT AAGTCCACTG CCGTGGTGGT TGATGGCGAG 840
CTCTACACTG GAACAGAGCT CAGCTTCCAA GGGAAATGAC CGGCCATCTC GCGGAGCCAA 900
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GCGTCAGCTC GCAATTCCTGA GAGCCTGGGC AGCTTGCAAG GCGATGATGA CAAGATTCTAC 1020
30 TTTTCTCTCA GCGAGACTGG CAGGAAATTT GAGTTCTTTG AGAACACCAT TGTGTCCCGC 1080
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35 ACAATGAAGG ATGTGACAG AGTCTTCAGC GCGCTCTACA AGGAGGTGAA CCGTGAGACA 1380
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40 GATGTCCTCT TCTTGGGCAC TGGTGACGGC CGGCTCCACA AGGCAGTGAG GGTGGGCCCC 1680
CGGGTGACCA TCATTGAGGA GCTGCAGATC TTCTCATCGG GACAGCCCGT GCAGAACTCTG 1740
CTCTGTCGCA CCGCAGGGG GCTGCTGTAT GCGGCTCAC ACTCGGGCGT AGTCCAGGTG 1800
CCCATGGCCA ACTGCAGCTT GTACAGGAGC TGTGGGACT GCGTCTCGC CCGGACCCCC 1860
TACTGTGCTT GGAGCGGCTC CAGCTGCAAG CAGTCAAGC TCTACAGCC TCAGTGGCC 1920
45 ACCAGGCGGT GGATCCAGGA CATCGAGGGA GCCAGGCGCA AGGACCTTTG CAGCGGTCT 1980
TCGGTGTGTT CCGGCTCTTT TGTACCAACA GGGGAGAAGC CATGTGAGCA AGTCCAGTTC 2040
CAGCCCAACA CAGTGAACAC TTTGGCCTGC CCGCTCTCTT CCAACCTGCG GACCGACTC 2100
TGGTACGCA AGCGGGCCCC GGTCAATGCC TGGGCTCTCT GCCACGTGCT ACCCACTGGG 2160
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TGCTCCTTAT GTAACTGAG CCGTTTGTIT AAAAAACAAT TCCAAATGTG AAATAGAAAT 3060
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65 GGGGTGCTGG GGATGCATCC AAAGTGGTGT TCTGAGACAG AGTGGAAAC CCTCACCAAC 3180
TGGCCTCTTC ACCTTCCACA TTATCCGCTT GCCACCGGCT GCGCTGTCTC ACTGCAGATT 3240
CAGGACCGAG TTGGGCTGCG TGGTTCTGCT CTTGCCAGTC AGCGAGGAT GTAGTGTGTT 3300
CTGCGCTGCT CCCACCACTT CAGGAGCAG AGGGCTAGGT TGGCACTGCG GCGCTCACCA 3360
GGTCTTGGGC TCGGACCCAA CTCTGGGACC TTTCCAGCTT GTATCAGGCT GTGGCCACAC 3420
70 GAGAGGACAG CGCGAGCTCA GGAGAGATT GTGACAAATG TACGCTTTTC CCTCAGAATT 3480
CAGGGAAGAG ACTGTGCGCT GCGTCTCTCC GTTGTTCGCT GAGAACCCGT GTGCCCCCTC 3540
CCACATATC CACCCCTGCT CCATCTTTGA ACTCAACAC GAGGAACATA CTGACCCCTG 3600
GTCTCTCCC CAGTCCCGAG TTACCCCTCC ATCCCTCACC TTTCTCACT CTAAGGGATA 3660
75 TCAACACTGC CCAGCACAGG GCGCCTGAAT TTATGTGTTT TTTATCACT TTTTAATAAG 3720
ATGCACCTTA TGTCATTTTT TAATAAAGTC TGAAGAATTA CTGTTT 3766

Seq ID NO: C49 DNA Sequence
Nucleic Acid Accession #: NM_007019.1
Coding sequence: 41..580

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5 CCCAGCCGCC ACTAGCGTCG CCGCCGCCCG TAAAGGAGCT GAGCCGAGCG GGGGCGCCGC 120
 CCGGGGTCCG GTGGGCAAAA GGCTACAGCA GGAGCTGATG ACCCTCATGA TGTCTGGCGA 180
 TAAAGGGATT TCTGCCCTCC CTGAATCAGA CAACCTTTTC AAATGGGTAG GGACCATCCA 240
 TGGAGCAGCT GGAACAGTAT ATGAAGACCT GAGGTATAAG CTCTCGTAG AGTTCCCCAG 300
 TGGCTACCTT TACAATGCGC CCACAGTGAA GTTCTCAGC CCCTGCTATC ACCCCACAGT 360
 GGACACCCAG GGTAAACATAT GCCTGGACAT CCTGAAGGAA AAGTGGTCTG CCCTGTATGA 420
 TGTCAAGACC ATTCTGCTCT CCATCCAGAG CCTTCTAGGA GAACCCAACA TTGATAGTCC 480
 CTTGAACACA CATGCTGCCG AGCTCTGAA AACCACCACA GCTTTTAAGA AGTACCTGCA 540
 10 AGAAACCTAC TCAAGCAGG TCACCAGCCA GGAGCCCTGA CCCAGGCTGC CCAGCCTGTC 600
 CTGTGTCTGT CTTTTAAAT TTTCTTAGA TGGTCTGTCC TTTTGTGAT TTCTGTATAG 660
 GACTCTTTAT CTTGAGCTGT GGTATTTTGT TTTTGTTTT GTCTTTTAAA TTAAGCCTCG 720
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 AAA 783

15 Seq ID NO: C50 DNA Sequence
 Nucleic Acid Accession #: NM_014584.1
 Coding sequence: 227..1633

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 CGCGCTGCGG GCGGCGCCCG ACGGGCTTCA TCTGAGGCGC CACGCGCCCG GACCGAGCGT 180
 25 GCGGACTGGC CTCCCAAGCG TGGGCGGACA AGCTGCCGGA GCTGCAATGG GCCGCGGCTG 240
 GGGATTCTTG TTTGGCTCCG TGGGCGCCGT GTGGCTGCTC AGCTCGGCCG ACGGAGAGGA 300
 GCAGCCCCCG GAGACAGCGG CACAGAGGTG CTTCTGCCAG GTTAGTGTTT ACTTGGATGA 360
 TTTGACTCTT GATGTTGAAA CCATTGATAG ATTAAATAAC TACAGGCTTT TCCCAAGACT 420
 ACAAAAACCT CTTGAAAGTG ACTACTTTAG GTATTACAAG GTAAACCTGA AGAGGCGGTG 480
 30 TCCTTTCTGG AATGACATCA GCCAGTGTGG AAGAAGGGAC TGTGCTGTCA AACCATGTCA 540
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 TAATCTCATT GAAGAATGTG AACCAAGCTGA ACGACTTGGG GCAGTGGATG AATCTCTGAG 660
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 CTGTGAAGCT GATGACATTC AGTCCCCCTG AGCTGAATAT GTAGATTTCG TTTCTAATCC 780
 35 TGAGCGCTAC ACTGGTTACA AGGGACCAGA TGCCTGGAAA ATATGGAAAT TCATCTACGA 840
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 AGGGACAAGT GAAGAGAACA CTTTTTACAG TTGGCTAGAA GGTCTCTGTG TAGAAAAAAG 960
 AGCATTCTAC AGACTTATAT CTGGCTTACA TGCAAGCATT AATGTGCATT TGAGTGCAAG 1020
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 40 ACAGCGATTG TATGGAATTT TGACTGAAGG AGAAGGTCCA AGAAGGCTTA AGAAGCTGTA 1140
 TTTTCTCTAC TTAATAGAAC TAAGGGCTTT ATCCAAAGTG TTACCATCTC TCGAGCGCCC 1200
 AGATTCTCAT CTCTTTACTG GAAATAAAAT TCAGGATGAG GAAACAAAAA TGTACTCTG 1260
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 45 TTCAGAAATT ATGGAATGTG TTGGTTGTTT TAAATGTGCT CTGTGGGGA AGCTTCAGAC 1440
 TCAGGGTTTG GGCCTGCTC TGAAGATCTT ATTTCTGAG AAATGTATAG CAAATATGCC 1500
 AGAAAGTGA CTAATTTATG AATTCCTATC AACCAAGCAA GAAATAGTAT CATTATTCAA 1560
 CGCATTGGA AGAATTTCTA CAAGTGTGAA AGAATTAGAA AACTTCAGGA ACTTGTTACA 1620
 50 GAATATTCAT TAAAGAAAAC AAGCTGATAT GTGCCCTGTT CTGGACAATG GAGGCGAAAG 1680
 AGTGAATATT CATTCAAAGG CATTAATAGCA ATGACAGTCT TAAGCCAAAC ATTTTATATA 1740
 AAGTGTCTTT TGTAAAGGAG AATTATATTG TTTTAAGTAA ACACATTTT AAAAAATTG 1800
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 GTTCTAAGTC TCTCAACTA GCGTTTATG TAATAATATG TAATATAAAT AAAACTATGG 1980
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 TTGCCAGTT AGATTTTGAAT TTCAGATAAA CAATTAGITT TTTAATATT TACATGGAAT 2160
 ATTTGGAAAA TACTTATACT AAAAAATTAT TTGTTGAAA TTCACATTTA ACTGGAGTGC 2220
 TTGTATTTTA TCTGGCAATC CTAATAATACA TTGGTATGAA ACAATCACT TTAGAAGTA 2280
 60 TATTGCTATT TTGATTGGGT TGTTTTGTG TGTAGAAACG TACAATAACA ACTCAAAGGC 2340
 ACAGGAGATT TCTAAACATT GTGAAAAGTT GAATGATTA TATATTATT CTCATAATAC 2400
 TTTCACTAAT ACTAAATAAA ATTTGGGGAA CACTTTTAT TTTTATATAA TTTCAATTT 2460
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 65 ATCATTGAA AGTCAGTTAT AGGCATCATG CCCCTTAAAC CCTAAATACT TCAGTGTGTA 2640
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 GAGTTTGTGT GCCCGTTTGA TGTCTGATGT GTATAGTAAT AGGTAGGCT ATTTATTTTA 2820
 TTAATAATTT TTTTAGAGAC AAGGTTTTCG TGTGTGCCC AAGCTGGAAC TTGAACGACT 2880
 70 GGGCTGAAGT GATCTTCCCA CCTCAGCCTC CCAAGTAGCT GGGAAATACAG GTGCTGCCA 2940
 CCATACCCAG TTTCATTTT GTTTTATAA CCCGAAGTTC ATTTCCCTTG TCTCCCTAAA 3000
 ACTGAACGTG AATTTTGGGA GGTTTTCATT AGTGGAGCT CTTCAATTTA AAGCTATTT 3060
 GAAGGGGTTT AGGAATTTAT ATCAGATGTT AATTGTAGAG AAAAAGAAGC TATATACCTC 3120
 75 AAAATCGTGC CCTCTTACA TATGCTTAT CAGGTATAAC ATGTGAAATG GTCACATTAG 3180
 TAGTAAGTG GGGTTTATT ATATAGTGTG TAAGAAATGT CAGTTTACAC TGCTGTATAC 3240
 TTCTTCTCT GTGTCCTTAA GGCCTGGTAC AGTGCCAAGC ACATACTTGG TATCCAATAA 3300
 ATATTGTGTG GATGAAAAA AAAAAAATA AAAA 3334

80 Seq ID NO: C51 DNA Sequence
 Nucleic Acid Accession #: NM_002888.1
 Coding sequence: 37..723

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CTGTTGCTCG CCCCGTGGC GCGCGCGCGG GGGTCCGGGG GCCCGGACGA CCTGGGGCAG 180
CCTCAGGATG CTGGGGTCCC GCGCAGGCTC CTGCAGCAGA AGCGCGCGCG GCGGCTTCAC 240
TTCTTCAACT TCCGGTCCGG CTGCGCCAGC GCGCTGCAG TGCTGGCCGA GGTGCAGGAG 300
GGCCGCGCGT GGATTAATCC AAAAGAGGGA TGTAAGTTC ACGTGGTCTT CAGCACAGAG 360
CGCTACAACC CAGAGTCTTT ACTTCAGGAA GGTGAGGGAC GTTTGGGGAA ATGTTCTGCT 420
CGAGTGTTTT TCAGAAATCA GAAACCCAGA CCAACCATCA ATGTAACITG TACACGGCTC 480
ATCGAGAAAA AGAAAAGACA ACAAGAGGAT TACCTGCTTT ACAAGCAAT GAAGCAACTG 540
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AGACTCATCT GGGATTGGC TTTCTTGA AGCTCTTACG TGATGTGGGA AATGACAAAC 660
CAGGTGTCTC ACTACTACTT GGCACAGCTC ACTAGTGTGA GGCAGTGGGT AAGAAAAACC 720
TGAAAAATTA CTGTGCCAC AAGAGTTACA ATCAAAGTGG TCTCCTTAGA CTGAATTCT 780
GTGAACCTCT AATTTCATAT CAAGAGTTGT AATCACAATT ATTTCAATAA ATATGTGAGT 840
TCCTGC 846
  
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Seq ID NO: C52 DNA Sequence

Nucleic Acid Accession #: NM_005409.3

Coding sequence: 94..378

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 35
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TTGGCTGTGA TATTGTGTGC TACAGTTGTT CAAGGCTTCC CCATGTTCAA AAGAGGACGC 180
TGTCTTTGCA TAGGCCCTGG GGTAAAAGCA GTGAAAGTGG CAGATATTGA GAAAGCCTCC 240
ATAATGTACC CAAGTAACAA CTGTGACAAA ATAGAAGTGA TTATTACCTT GAAAGAAAAT 300
AAAGGACAA GATGCCTAAA TCCCAAAATC AAGCAAGCAA GGCTTATAAT CAAAAAAGTT 360
GAAAGAAAGC ATTTTAAAA ATATCAAAAC ATATGAAGTC CTGAAAAAGG GCATCTGAAA 420
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GGGTGAAAGG ACCAAAAACA GAAATACAGT CTTCCTGAAT GAATGACAAAT CAGAATTCCA 600
CTGCCCAAG GAGTCCAGCA ATTAAATGGA TTTCTAGGAA AAGCTACCTT AAGAAAGGCT 660
GGTTACCATC GAGAGTTTACA AAGTGCTTTC ACGTCTTAC TTGTTGATT ATACATTCTAT 720
GCATTTCTAG GCTAGAGAAC CTCTAGATT TGATGCTTAC AACTATTCTG TTGTGACTAT 780
GAGAACATTT CTGTCTCTAG AAGTTATCTG TCTGTATTGA TCTTTATGCT ATATTACTAT 840
CTGTGGTTAC AGTGAGAGCA TTGACATTAT TACTGGAGTC AAGCCCTTAT AAGTCAAAAG 900
CATCTATGTG TGTAAAGCA TTCTCAAAC ATTTTTCAT GCAAAATACAC ACTTCTTTCC 960
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TGGGATACTG GCAACAGTGC ACATATTICA TAACCAAAAT AGCAGCACCG GTCTTAATTT 1140
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Seq ID NO: C53 DNA Sequence

Nucleic Acid Accession #: FGENESH predicted

Coding sequence: 1..609

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CTCAGCGCGC TCACCCGCTT CCAGCCCGAG GCGGACCTGG AGCGCCTGGT CGCTCCAGC 180
CACAGCCTGG CCAAGATCGA GCGCAGCCTG GCCAGCAGCC TTTTCCCCCT GGACCACTCC 240
AAAAGCCAGC TCTATTGCGA CTTACACACC CCGGGAGGT ATGGCAGGGT GATCCTCCTC 300
TCCCCAACCG GGGACAATAT TTTGCTCCAG GCTGAGGGGA TCCCTGCAGC CCACCGAGCC 360
GTGCTGGAAA TGAAGGTGAA CCACAAGGSC TATAATTATA CTTTTTCCCA TCTGTGTGTG 420
TTGAGAAATC AGGATAAGAA ATGCGTGTCT GATGATATTA TTTCACTGCT AGAGGATCTC 480
AGGCAGGCTG CGTCTCCAA TAAGACAACA GCCAGGGTGC AAGTGAGGTA TCCCAACACT 540
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TTGCCCTAA 609
  
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Seq ID NO: C54 DNA Sequence

Nucleic Acid Accession #: NM_002438.1

Coding sequence: 104..4474

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 80

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GCCCTCCTGT CCATCAGGAG AAGGAAAGGA TAAACCTCGG GCCATGAGGC TACCCCTGCT 120
CCTGTTTCTT GCCTCTGTCA TTCCGGGTGC TGTTCTCCTA CTGGACACCA GGCAATTTT 180
AATCTATAAT GAAGATCACA AGCGCTGCGT GGATGCAGTG AGTCCAGTG CGGTCCAAAC 240
CGCAGCTTGC AACCAGGATG CCGAATCACA GAAATCCGA TGGGTGTCCG AATCTCAGAT 300
TATGAGTGTG GCATTAAAT TATGCTGGG AGTGCCATCA AAAACAGACT GGGTTGCTAT 360
CACTCTCTAT GCCTGTGACT CAAAAAGTGA ATTTCAAGAA TGGGAGTGCA AAAATGACAC 420
ACTTTTGGGG ATCAAAGGAG AAGATTATT TTTTAACTAC GGCAACAGAC AAGAAAAAG 480
TATTATGCTC TACAAGGAT CGGGTTTATG GAGCAGGTGG AAGATCTATG GAACCAAGA 540
CAATCTGTGC TCCAGAGGTT ATGAAGCCAT GTATACGCTA CTAGGCAATG CCAATGGAGC 600
AACCTGTGCA TTCCCGTTCA AGTTTGAAAA CAAGTGGTAC GCAGATTGCA CGAGTGTCTG 660
GCGGTGCGAT GGTGCTCTCT GGTGCGGAAC CACTACTGAC TATGACACAG ACAAGCTATT 720
  
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5	TGGATATTGT	CCATTGAAAT	TTGAGGGCAG	TGAAAGCTTA	TGGAATAAAG	ACCCGCTGAC	780
	CAGCGTTTCC	TACCAAGATA	ACTCCAAATC	CGCTTTAAAC	TGGCACCAG	CGAGGAAAAG	840
	CTGCCAACAA	CAGAACGCTG	AGCTCCTGAG	CATCACAGAG	ATACATGAGC	AAACATACCT	900
	GACAGGATTA	ACCAGTTTCT	TGACCTCAGG	ACTCTGGATT	GGACTTAACA	GTCTGAGCTT	960
	CAACAGCGGT	TGSCAGTGGG	GTGACCGCAG	TCCTTTCCGA	TATTTGAACT	GGTTACCAGG	1020
	AAGTCCATCA	GCTGAACCTG	GAAAAAGCTG	TGTGTCACTA	AATCCTGGAA	AAAAATGCTAA	1080
	ATGGGAAAAA	CTGGAATGTG	TTCAAGAACT	GGGCTATATT	TGCAAAAAGG	GCAACACCAC	1140
	TTTAAATTCT	TTTGTATTTC	CCTCAGAAAG	TGATGTGCTT	ACTCACTGTC	CTAGTCAGTG	1200
10	GTGGCCGTAT	GCCGGTCACT	GTTACAAGAT	TCACAGAGAT	GAGAAAAAAA	TCCAGAGGGA	1260
	TGCTCTGACC	ACCTGCAGGA	AGGAAGGCGG	TGACCTCACA	AGTATCCACA	CCATCGAGGA	1320
	ATTGGACTTT	ATTATCTCCC	AGCTAGGATA	TGAGCCAAAT	GACGAATTGT	GGATCGGCTT	1380
	AAATGACATT	AAGATTCAAA	TGTACTTTGA	GTGGAGTGAT	GGGACCCCTG	TAACGTTTAC	1440
	CAAAATGGCTT	CGTGGAGAAC	CAAGCCATGA	AAACAACAGA	CAGGAGGATT	GTGTGGTGAT	1500
15	GAAAGGCAAG	GATGGGTACT	GGGCAGATCG	GGGCTGTGAG	TGGCCTCTTG	GCTACATCTG	1560
	CAGAGTGAAG	TACCAAGGCC	AAGGTCCAGA	AATAGTGGAA	GTGAAAAAAG	GCTGCAGGAA	1620
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	AGAAGCAAA	CAACCTCTGA	ATAATGAGAA	TGCTTATTTA	ACAACATATT	AAGACAGATA	1740
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20	ACTTTTCAGAT	ATACAAAACCA	AAGGGACTTT	TCAGTGGACC	ATCGAGGAAG	AGGTTTCGGTT	1860
	CACCCACTGG	AATTTCAGATA	TGCCAGGGCG	AAAGCCAGGG	TGTGTTGCCA	TGAGAACCCG	1920
	GATTGCAGGG	GGCTTATGGG	ATGTTTTGAA	ATGTGATGAA	AAGGCAAAAT	TTGTGTGCAA	1980
	GCATCGGGCA	GAAGGAGTAA	CCCACCCACC	GAAGCCACAG	ACGACTCCCG	AACCCAAATG	2040
	TCCGAGGAGT	TGGGGCGCCA	GCAGTAGAAC	AAGCTTGTGT	TTCAAGCTGT	ATGCAAAAGG	2100
25	AAAAATAGAG	AAGAAAACGT	GGTTTGAATC	TGAGATTGTT	TGTCGAGCTC	TGGGTGGAGA	2160
	CTTAGCTAGC	ATCAATAACA	AAGAGGAACA	GCAAAACAATA	TGGCGATTAA	TAACAGCTAG	2220
	TGGAAGCTAC	CACAAACTGT	TTTGGTTGGG	ATTGACATAT	GGAGCCCTTT	CAGAAGGTTT	2280
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30	TATTAAITGT	GAAACCTTAT	ACAACTGGAT	TTGCCAGATA	CAAAAAGGAC	AAACACCAAA	2460
	ACCTGAGCCA	ACACCACTCT	CTCAAGACAA	TCCACCAAGT	ACTGAAGATG	GGTGGGTTAT	2520
	TTACAAAGTAC	AACCAACTGT	ATTTCAGCAA	AGAGAAGGAA	ACCATGGACA	ATGCGCGAGC	2580
	GTTTTGCAAG	AGGAATTTTG	GTGATCTTGT	TTCTATTCAA	AGTGAAAGTG	AAAAGAAAGT	2640
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	CACAGGTGAA	CCCAATTTTG	CAAATGAAGA	TGAAAACCTG	GTGACCATGT	ATTCAAATTC	2820
	AGGGTTTGG	AATGACATTA	ACTGTGGCTA	TCCAAACGCC	TTCAATTGCG	AGCGACATAA	2880
	CAGTAGTATC	AATGCTACCA	CAGTTATGCC	TACCATGCCC	TCGGTCCCAT	CAGGGTGCAA	2940
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40	AAGAAAAAAT	TGGCAAGAGG	CACGAAAAGC	TTGTATAGGC	TTTGGAGGGA	ATCTGGTCTC	3060
	CATACAAAAT	GAAAAAGAGC	AAGCATTTCT	TACCTATCAC	ATGAAGGACT	CCACTTTTAC	3120
	TGCTTGGACT	GGGCTGAATG	ATGTCAATTG	AGAACACACG	TTCTTTTGGG	CGGATGGACG	3180
	AGGAGTCCAT	TACACAAACT	GGGGGAAAGG	TTACCTCGGT	GGAGAAGAA	GCAGCTTTTC	3240
	TTATGAAGAT	GCTGACTGTG	TTGTTATTAT	TGGAGGTGCA	TCAATGAAG	CAGGAAAATG	3300
45	GATGGATGAT	ACCTGCGACA	GTAACGAGG	CTACATATGC	CAGACACGAT	CCGACCCCTC	3360
	CTTGACTAAT	CCCTCAGCAA	CGATTCAAAC	AGATGGCTTT	GTTAAATATG	GCAAAAGCAG	3420
	CTATTCACTC	ATGAGACAAA	AATTTCAATG	GCATGAAGCG	GAGACATACT	GCAAGCTTCA	3480
	CAATTCCCTT	ATAGCCAGCA	TTCTGGATCC	CTACAGTAAT	GCAATTGCGT	GGCTGCAGAT	3540
	GGAAACATCT	AATGAACGTG	TGTGGATCGC	CCTGAACAGT	AACCTTGACTG	ATAATCAATA	3600
50	CACCTTGGAT	GATTAGTGGG	GGGTGAGGTA	CACATACTGG	GCTGCTGATG	AGCCCAAAAT	3660
	GAAATCAGCA	TGTGTTTATC	TGGATCTTGA	TGGCTACTGG	AAGACAGCAC	ATTCGAATGA	3720
	AAGTTTTTAC	TTTCTCTGTA	AAAGATCAGA	TGAAATCCCT	GCTACTGAAC	CCCCACAAC	3780
	GCCTGGCAGA	TGCCCGGAGT	CAGATCACAC	AGCATGGATT	CCTTTCCATG	GTCACTGTTA	3840
	CTATATTGAG	TCCTCATATA	CAAGAACTG	GGGCCAAGCT	TCTCTGGAAT	GTCTTCGAAT	3900
55	GGGTTCTCTC	CTGGTTTCCA	TTGAAAGTGC	TGCAGAAATC	AGTTTTCTGT	CATATCGGGT	3960
	TGAGCCACTT	AAAAGTAAAA	CCAAATTTTG	GATAGGATTG	TTCAAGAAATG	TTGAAGGGAC	4020
	GTGGCTGTGG	ATAAATAACA	GTCGGTCTC	CTTTGTCAAC	TGGAACACAG	GAGATCCCTC	4080
	TGGTGAACGG	AATGATTGTG	TAGCTTTACA	TGCGTCTTCT	GGGTTTTGGA	GTAATATTCA	4140
	CTGTCTCTCC	TACAAAGGAT	ATATTGTGTA	AAGACCAAAA	ATTATTGATG	CTAAACCTAC	4200
60	TCATGAATTA	CTTACACAAA	AAGCTGACAC	AAGGAAGATG	GACCCCTCTA	AACCGTCTTC	4260
	CAACGTGGCC	GGAGTAGTCA	TCATTGTGAT	CCTCCTGATT	TTAACGGGTG	CTGGCCTTGC	4320
	CGCCTATTTC	TTTTATAAGA	AAAGACGTGT	GCACCTACCT	CAAGAGGGCG	CCTTTGAAAA	4380
	CACCTGTGAT	TTTAAACATC	AGTCAAGCCC	AGGAACTAGT	GATATGAAAG	ATCTCGTGGG	4440
	CAATATTGAA	CAGAATGAAC	ACTCGGTCTAT	CTAGTACCTC	AATGCGATTG	TGAGATATTG	4500
65	GAATTTTATA	AAATTGTAA	TGAAATTTAA	AAATTTTAGT	TCAATGTGAT	TGTTTTCTTT	4560
	AAAATGAGTA	CTGAATTGTA	CTGGTCTGTC	CTTTTTCTCT	TTGCCTAATT	GAAGAAATAA	4620
	TTGCTTGTGT	TCTAGCTGGG	CAAGATATTG	TCATAAAAGA	GGGATAACAA	TGCTGATTAC	4680
	TACCTTTTAA	AATATTTTAG	ATAAATGCAC	AGCACCACAG	CACCACTACT	AAGCATTAGT	4740
	GATGGGTAGC	TGATGTCAGC	TTTATGTGGA	TTTTAAGCAC	TCTAGAAACA	ATGAAGCTTC	4800
70	TTGGCATATT	TTAAGGAGCT	CCCAAAATGT	GTTACCTATT	AAATTTGTAAC	TCAGCAAGTA	4860
	GAAGACCAIT	TGAAAGTCA	GGTACAAAT	TCCTCAAGTG	GCATAAAAAT	GTAGTCAGTT	4920
	TTCTCTTTTA	CCAGTTTTTA	TTTCCACTCC	AATTATTAG	AACCTTTATT	GTACATGTGC	4980
	AGAAGAAATA	GGCAGCTGAG	AATCTTGTGT	CCCCCAAGAG	AGTTTTACAG	GCTGAGTGTT	5040
	GCAAAATGTT	TCCTTGTCTT	GTTATATGTA	TATCAGGAAT	ACAAGGATGT	GAATAAATAA	5100
75	TGTAATTTG	CATAACTGGA	TGTACTTAGA	TAATGTGAAA	TAAACATTAA	AGACAAGGTC	5160
	TATTTTTAAT	AAAAAAAATA	AAAAA				5185

Seq ID NO: C55 DNA Sequence
Nucleic Acid Accession #: NM_024574.2
Coding sequence: 424..2130

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CCCGCGCGCC	AGCCCCCGCA	CGCTCCCTGC	AGTTTAAAG	GACCTCCCGC	CGCTTCTCGG	120

5	CGCTGCCCGG	GGATTCCCA	GCCCCGCGG	GCTCCCTACT	CCACTTCGCA	GCAACTTCGG	180
	CGACCGCGCG	CCGCGCGCGC	TCGCGCGCCT	TTGAAGTTTG	CTGTGCCGAC	CGCAAGTTTG	240
	GGACACTTCA	CGGATTGAA	TTTTCTCTT	TTATCTGCCT	CCGTCGCCG	CCTCCAGGCT	300
	TCTCGTTCCT	GGATATTGGT	GCTTAGCATC	TTGGCAGGGT	CCGGGGAOGT	GGACTATTTT	360
	GCACACCACA	CCAGGGGGAG	GGATTTTTTT	CTATTTTCCC	TACGAAAAAC	AGATCTTTTT	420
	AAGGATGGTG	CTGTCCACT	GGTGCCTGCT	GTGGCTCCTG	TTTCCACTCA	GCTCAAGGAC	480
	CCAGAAGTTA	CCCACCGGG	ATGAGGAACT	TTTTCAGATG	CAGATCCGGG	ACAAGGCATT	540
	TTTTCATGAT	TGTCAGTAA	TTCCAGATGG	AGCTGAAATT	AGCAGTTATC	TCITTAGAGA	600
10	TACACCTAAA	AGGTATTTCT	TTGTGGTTGA	AGAAGACAAT	ACTCCATTAT	CAGTCACAGT	660
	GACGCCCTGT	GATGCGCCTT	TGGAGTGAA	GCTGAGCCTC	CAGGAGCTGC	CAGAGGACAG	720
	GAGCGGGGAA	GGCTTCAGTG	ATCTGGAACC	TCTTGAGCAG	CAGAAGCAGC	AGATCATTAA	780
	TGAGGAAGGC	ACTGAGTTAT	TCTCTACAA	AGGCAATGAT	GTGAGTATT	TTATATCGTC	840
	TAGTTCCCA	TCCGTTTAT	ATCAGTTGGA	TCTTCTTTCA	ACAGAGAAAG	ACACACATTT	900
15	CAAAGTATAT	GCCACCACAA	CTCCAGAATC	TGATCAGCCA	TACCCGTAGT	TACCCATGTA	960
	CCCAAGAGTA	GATGTGACCT	CACTGGGGCG	CACCAAGGTC	ACTTTGGCCT	GGAAACCAAG	1020
	CCCACTGCC	TCTTTGCTGA	AACAACCCAT	TCAGTACTGT	GTGGTCATCA	ACAAGAGCAG	1080
	CAATTTCAAA	AGTCTCTGTG	CAGTGGAAAG	AAACTGAGT	GCAGATGATG	CTTTTATGAT	1140
	GGCACCGAAA	CCTGGTCTGG	ACTTCAGCCC	CTTTGACTTT	GCCCACCTTG	GATTTCTCTT	1200
20	TGATAATTCA	GGTAAAGAAC	GCAGTTTCCA	GGCAAGGCCT	TCTCCAAAC	TGGGGCGTCA	1260
	TGCTACTCTC	AGGCCCAAGG	TTGATATTCA	GAAATCTGCG	ATAGGAAACA	AGAACATCTT	1320
	CACCGTCTCT	GATCTGAAAC	CCGACACGCA	GTACTACTTT	GACGTATTTG	TGGTCAACAT	1380
	CAACAGCAAC	ATGAGCACCG	CTTATGTAGG	TACCTTTGCC	AGGACCAAGG	AAGAAGCCAA	1440
	ACAGAAGACA	GTGAGCTCA	AAGATGGGAA	GATAACAGAT	GTATTTGTTA	AAAGGAAGGG	1500
25	AGCAAGGTTT	CTACGGTTTG	CTCCAGTCTC	TTCTCACCAA	AAAGTCACCT	TCTTTATTCA	1560
	CTCTTGCTCG	GATGCTGTCC	AAATCCAAGT	GAGAAGAGAT	GGGAAACTTC	TTCTGTCTCA	1620
	GAATGTGGAA	GGCATTTCAG	AGTTTCAGCT	TAGAGGAAAA	CCTAAGGCTA	AATACCTCGT	1680
	TGCACTGAAA	GGAAACAAGA	AAGGAGCATC	TATGTTGAAA	ATTCTAGCTA	CCACAAGGCC	1740
	TACTAAGCAG	TCATTTCCCT	CTCTTCCTGA	AGACACAAGA	ATCAAAAGCT	TTGACAAGCT	1800
30	CGCTACCTGT	TCTTCGGCCA	CCGTGGCCTG	GCTAGGCAC	CAGGAAAGGA	ACAAGTTTGT	1860
	CATCTACAAA	AAAGAAGTGG	ATGATAACTA	CAATGAAGAC	CAGAAGAAAA	GAGAGCAAAA	1920
	CCAATGTGAA	GGACCAAGTA	TAAGGAAGAA	GTCAAGAAAG	GTCTCTCTGA	AATATTTCCTA	1980
	CAGTCAAAAC	CTGCAGAAAG	CAGTGACCA	AGAAACAATT	AAAGGTCTTC	AGCCTGGCAA	2040
	ATCTTACCTG	CTGGATGTTT	ATGTCATAGG	ACATGGGGGG	CACCTGTGAA	AGTATCAGAG	2100
35	TAAAGTTGTT	AAAACTAGAA	AGTTCTGTTA	GTACCTCTT	TATAGAGATA	TATTATGTAG	2160
	AACTCCAGGA	GGGACATTAA	ATCACTTTAA	GTATAAACTG	ACTACTCCCA	CAGTTGAGAG	2220
	AAGTTGTGAT	CTGTACTTGT	ACTATGGAAG	GAAGGATATC	AACGTGTGTA	TATTGATGTT	2280
	TATATAAGTA	ACTCTTGAAG	GAGACTTGTT	CTAGCGTGCC	CCATGTTACC	TAGTGTGTGT	2340
	CTGATGCCGG	TTGGTGTCAG	AGATAGAGGG	CTTCTTGAAG	GAACCTTGCCA	TTCTTTGCTT	2400
40	TGACCACCTG	ATGAACCTTG	TCTAAATTAT	TTTATTACCT	AAAAATTAA	AATATGCCAT	2460
	TCATTGCACA	CACCCACAAA	TGCAAAATCAT	TCCTCTCTAT	AGATGCTAGG	ATATATATAA	2520
	ATTATTCTAT	AAATCTTGT	TTTAAATGTC	AGTGTCTCTA	TGATGTGAAA	CTATTAAATT	2580
	CTTTCTCTAT	TAAAGTACAG	ATCTAATCTA	AGTATTATTA	AGTTGATAGC	CCTCTAGTCA	2640
	GTTATATTGC	TATTGTAAAT	TCTTGTTTGT	TGAGTAAAT	GTTTAAATAC	TATATGTATC	2700
45	TCATGTACAA	AGTTGACATA	CATTATATTC	ATGTACATAA	AATTAAGAG	ATTAGATTAT	2760
	ATACTGTTAA	AAAAAAGAAA	AAAAAAGAAA	AAAAAAGAAA	AAAAAAGAAA		2808

Seq ID NO: C56 DNA Sequence
Nucleic Acid Accession #: BC034229.1
Coding sequence: 373..1422

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	AGTGTGTTACA	AATCAGAATA	ACTTTTAGAC	AATAITTAAGG	TGGTAATCAT	GAACGAAAAA	180
	GATTTTGTAG	TTCTTCCATG	GGGAAAACCT	GGAAATCTG	TAAAGCTAAA	ATATAGCAAT	240
	GTAATAATTA	AAACAAAAGT	CTAAGATTGG	AAGAGATRAAT	TTGCTTCAGG	ATTTTGTATG	300
60	AAGGCARAAT	CTAAGCTTTA	AAACCAGATT	TCGGAGAAGT	ACAAAAGAAA	TAGAAATGCT	360
	CAAGAACTGC	GAATGGAGAA	AGTACAGTTA	GAGTTTGAGA	ACCAAGAGAT	GGAGAAGAAA	420
	CTGCAAGAA	TCCGATCCAC	AAGAAACAAA	GAAAAGGAAG	ATAGAGAGTC	AAGCGAGTAT	480
	TACTGGAAAT	CTGGAAAAGT	GGGCAAAATTG	GTCAATCAAT	CATATATGAT	GTCACAAAAT	540
	AAAGGAAATG	TTGTTAAGTT	TTCTGCTGGA	AAAGTGAAAT	TAAATTTGCT	GAAGGAACAG	600
65	ATTCAGAGAG	CAGTGAAACC	AACAGTTAAT	TATAAAATGG	CAAAATCTTC	AGAAATGTGAA	660
	AAACCCAAGA	TAAATGGGAA	AGTTTGTGGA	CAGTGTGAGA	ACAAAGCTGC	TCTACTGGTA	720
	TGCGTTGAAT	GTGGAGAAGA	TTATTGTTCA	GGATGCTTTG	CTAATGTTCA	CCAGAAAGGG	780
	GCACATAAGC	TCCACAGAAC	AACTCTTTTG	CAGGCAAGAT	CTCAATATAT	ATTCAATGTA	840
	TTGGATGTTG	CCCATCAGTT	TATAAAGGAT	GTTAATCCAG	ATGAACCCAA	AGAGGAGAA	900
70	AATTCACAAA	AGGAAACCCAG	TAAAATTCAA	CATAAACCCA	AATCTGTACT	TCTCCAGAGG	960
	AGCAGCTCTG	AGGTAGAAAT	TACAACGATG	AAAAGAGCAC	AAAGTACAAA	ACCAAGAAAG	1020
	AGTCTGTTGT	GTGAAGGGTC	ATTGATGAA	GAAGCTTCTG	CACAGTCCTT	TCAGGAAGTG	1080
	TTAAGTCAAT	GGAGAACCGG	AAATCATGAT	GACAACAAGA	AACAGAAATT	ACATGCAGCA	1140
	GTAAGAAGCT	CATTGGAAGA	ATGCGAAGTA	CAGACTAATC	TGAAAATTG	GAGAGAAACA	1200
75	CTTAATATTG	AACTTAAAG	AGACATTCTA	TCCTATATGG	AAAAATTATG	GCTTAAAAAA	1260
	CACAGGAGAA	CTCCACAAGA	GCAACTTTTT	AAATGCTACC	AGATACGTTT	CCCATCCAC	1320
	ATGAAACCAT	TGGTGATGCA	CAGTGTCTCT	AAAAAGAAA	CGATGAAGAT	AGTGTGGTG	1380
	AGGAGACCNA	AGTACACAC	ACAGCTCTTT	TATTGCCAGT	AGAAACATTA	AACATAGAGA	1440
	GACCTGAACC	ATCTCTGAAG	ATAGTGAAC	TGGATGATAC	TTATGAAGAG	GAATTTGAAG	1500
80	AAGCAGAAAA	TATTGTGCTT	TACAAAGTTA	AATTAGCTGA	TGCAGACAGT	CAACGAAGTT	1560
	GTGCTTTTCA	TGATTGTGAG	AGAATAGCTT	TTCCATATGA	AAATGGCATC	CATCAACATC	1620
	ATGTTTTCGA	TAAGGGAAG	AGAGACTTCT	TAAATCTTTG	TCTGAGAAAC	AGCTCTACTT	1680
	ATTATAAAGA	TAAATCAAAA	GGAGAACTTT	CAAAACACAG	TTTTGACAA	ATCGTGGATC	1740
	CTGATGTGTA	TTCTTCTGAC	ATTGAAAAAA	TTGAGGAAAG	CACCTCCTTT	GAAAGAAATT	1800
	TAAAGGAGAA	AAATATAGGT	TTAGAAAGTA	ATCAAAAGTC	TGATGATTCC	TGTTATATCAC	1860

5 TTGAAAGCAA GGACACTTTG CTAGGTAGAG ATTTAGAAAA AGCTCCCATY GAGGAGAAAT 1920
 TATCTCAAGA CATCAAGAA TCCTTGAAT TGAGCAATCT GTATAAGAGG CCAAGCTTTG 1980
 AAGAATCAAA AACTACAAAG TCATCACTGT TGTACAAGA AATAGCCTGC AGAAGTAAGC 2040
 CTATAACAAA ACAATATCAA GGACTTGAGA GATTCTTTAT TTTTGATACA AATGAAAGAC 2100
 TCAACTTACT TCCTTCTCAT CGTTTAGAAT GCAACAATTC CAGTACTAGG ATTACACTTG 2160
 CAGGTGAGAA ATCAGAGAGA CCTTCAACAG CAAATTTTCC ACTTTCCAAC TCTGTTAAAG 2220
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 CATCTAGAGC TGCTTCTGAA ATTTAGAAA TTGAATATAT TGATATTACT GACCAGAATG 2340
 10 AGCTTTCTCT AGATGACACT ACTGATCAAC ATACTTTAGA CAATTTGGAA AAAGAATTAC 2400
 AAGTGTGAG ATCTCTTGCA GATACTTCA AAAAGCTTTA CAGCTTAACC TCAGAAGAGT 2460
 TCCAGATTT CAGCAGCCAA TCACTGAATA TAAGTCAGAT TTCCACAGAT TTCCTTAAGA 2520
 CCTCACATGT GAGGGGTCCC TGTGGAGTTG AGGAATTGAG CTGTTCTGGA AGAGATACCA 2580
 AAATTCAGT TTTGCTGTCA CTTTCTGAGA GCAGTACAGA TGAGGAGGAG GAAGATTTC 2640
 15 TCAACAAGCA ACATGTCATC ACACTACCGT GGTCAAAGAG TACTTAAAGA TTATTGTTC 2700
 ATTACTGTTT CCATTTTGTA CCCAGAGTAA AGCAAAACAC TGAGAAAAGT AACCAAGTGA 2760
 TTACTATCC AAGTCTGGA GATTTTGATT ACTAATGTCT TTGATGTTT AAGGCTACAA 2820
 ACTAATAAAA GTAAATTTAT AAGTTCAAAA AAATTTTAA AAAAAAAT AAAAAA 2876

20 Seq ID NO: C57 DNA Sequence
 Nucleic Acid Accession #: NM_024687.1
 Coding sequence: 138..1706

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 AAGACATTCT ATCCCTATATG GAAAAATTTAT GGCTTAAAAA ACACAGGAGA ACTCCACAG 180
 30 AGCAACTTTT TAAATGCTA TCAGATACGT TCCACATCC ACATGAAACC ACTGGTGATG 240
 CACAGTGTTC TCAAAATGAA AACGATGAAG ATAGTGATGG TGAGGAGACC AAAGTACAAC 300
 ACACAGCTCT TTTATTGCCA GTAGAAACAT TAAACATAGA GAGACCTGAA CCATCTCTGA 360
 AGATAGTCGA ACTGGATGAT ACTTATGAAG AGGAATTTGA AGAAGCAGAA AATATTGTGC 420
 CTTACAAAGT TAAATTAGCT GATGCAGACA GTCAACGAAG TTGTGCTTTT CATGATTGTC 480
 35 AGAAGATAG CTTTCCATAT GAAAATGGCA TCCATCAACA TCATGTTTTT GATAAGGGAA 540
 AGAGAGACTT CTTAAATCTT TGTCTGAGAA ACAGCTCTAC TTATTATAAA GATAATTCAA 600
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 GTTTAGAAAG TAATCAAAAG TCTGATGATT CCTGTGTATC ACTTGAAAGC AAGGACACTT 780
 40 TGCTAGGTAG AGATTTAGAA AAAGCTCCCA TTGAGGAGAA ATTATCTCAA GACATCAAAG 840
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 AGTCATCACT GTTGTACAA GAAATAGCCT GCAGAAGTAA GCCTATAACA AAACAATATC 960
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 ATCGTTTAGA ATGCAACAAT TCCAGTACTA GGATTACACT TGCAGAAGAC AGAAGATGGA 1080
 45 TTCCAGACCA TAGCTTAAGT GAATATGCTG ATAATGCAAT TGTCTGGGT GTTCTGCAGG 1140
 GTGCTCAGAG TCCATCATCA AGTAGAAAC AGCAAAAGAT GGGTCAGAAA TCACAGAGAC 1200
 CTTCAACAGC AAATTTTCCA CTTTCCAAC CTGTTAAAGA AAGCTCCAGT TGCTTTTCA 1260
 CCTCTCATCC TCGATCAAGA AGTGCAGCTG CTCAATCATC ATCTAGAGCT GCTTCTGAAA 1320
 TTTCAGAAAT GAATATATAT GATATTACTG ACCAGAATGA GCTTTCCCTA GATGACATA 1380
 50 CTGATCAACA TACTTTAGAC AATTGGGAAA AAGAATTACA AGTGTCTGAGA TCTCTTGAG 1440
 ATACTTCAGA AAAGCTTTAC AGCTTAACCT CAGAAGAGTT CCCAGATTTC AGCAGCCAA 1500
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 GTGAGTTGA GGAATTGAGC TGTCTGAGAA GAGATACCAA AATTCAGTCT TTGCTGTAC 1620
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 55 CACTACCGTG GTCAAGAGAT ACTTAAAGAT TATTGTGTCA TTACTGTTTC CATTTTGTAC 1740
 CCAGAGTAAA GCAACCAACT GAGAAAAGTA ACCAGTGAT TACCTATCCA AGTGTCTGAG 1800
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 AGTTCAAAAA AAAAAAATA AAAA 1884

60 Seq ID NO: C58 DNA Sequence
 Nucleic Acid Accession #: NM_005408.1
 Coding sequence: 76..372

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 GCTTTCAACC CCCAGGAGCT TGCTCAGCCA GATGCACTCA AOGTCCCATC TACTTGCTGC 180
 TTCACATTTA GCAGTAAGAA GATCTCTCTG CAGAGGCTGA AGAGCTATGT GATCACACCC 240
 70 AGCAGGTGTC CCCAGAAGGC TGTCTATCTC AGAACCAAAC TGGGCAAGGA GATCTGTGCT 300
 GACCCAAAGG AGAAGTGGGT CCAGAATTAT ATGAACACCC TGGGCCGGAA AGCTCACACC 360
 CTGAAGACTT GAATCTGCT ACCCTACTG AAATCAAGCT GGAGTACGTG AAATGACTTT 420
 TCCATTCTCC TCTGGCTTCC TCTTCTATGC TTTGGAATAC TTCTACCATTA ATTTTCAAT 480
 AGGATGCAAT CGGTTTGTG ATTCAAAATG TACTATGTGT TAAGTAATAT TGGCTATTAT 540
 75 TTGACTTGT GCTGGTTTGG AGTTTATTG AGTATTGCTG ATCTTTTCTA AAGCAAGGCC 600
 TTGAGCAAGT AGGTTGCTGT CTCTAAGCCC CTTCCCTTC CACTATGAGC TGCTGGCAGT 660
 GGTTTGTAT TGGTTTCCA GGGGTTGAGA GCATGCCCTGT GGGAGTCATG GACATGAAGG 720
 GATGCTGCAA TGTAGGAAGG AGAGCTCTTT GTGAATGTGA GGTGTGTCTA AATATGTTAT 780
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 80 AAAATCTCCA AAAAAAATA 860

Seq ID NO: C59 DNA Sequence
 Nucleic Acid Accession #: AK097746.1
 Coding sequence: 185..2224

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	CTTCACATAC	AACCTATATT	GTAATATATG	CCGATCAGTA	TTTGAGAAGG	ACAAGCTGTT	120
	ATTTCCTTTT	TTATTATGTG	CCAATCTTCT	TCTGGCAAGG	AAAGAGATTG	AATACCAGGA	180
	ACTGATGTTT	CTTTAACTG	GAGGAGTAAG	TCTTAAAGT	GCTGAGAAAA	ATCCTGATCC	240
	AACCTGGCTA	CAGGACAAAA	GCTGGGAGGA	AATCTGTCGG	GCAAGTGAAT	TTCTGCTT	300
10	CAGAGGACCT	AGGCAACATT	TTTGTGAACA	TATATATGAA	TGGCGAGAAA	TCTATGACAG	360
	TAAAGAGCCA	CATAATGCTA	AATTTCCAGC	ACCAATGGAT	AAGAACCTAA	ATGAACTACA	420
	GAATAAATA	ATTCTTCGGT	GTTTAAGACC	TGATAAGATA	ACCCAGCTA	TAACAACTA	480
	TGTAACGTAC	AACTAGGGA	AAAAGTTTGT	AGAGCCTCCA	CCATTGTATT	TGACAAAGAG	540
	TTACTTGGAT	TCAAAATGCA	CCATTCCCTT	AATTTTGTG	CTATCTCCAG	GAGCAGATCC	600
15	TATGGCCAGC	CTGCTGAAAT	TTGCAATGA	TAAATCTATG	TCTGGAAATA	AGTTTCAAGC	660
	TATTTCACTG	GGACAGGGAC	AAGGACCGAT	TGCAGCAAAA	ATGATTAAAG	CAGCAATTGA	720
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	GGAAAAAATA	TGTGAAGATT	TTACCTCTGA	AACCTGTAAC	TCATCTTTA	GGCTTTGGCT	840
	GACAGCTAT	CCATCTTCAA	AATTCOCAGT	AACAATTTCTA	CAGAATGGAG	TAAAAATGAC	900
20	TAATGAACCT	CCACGGGTC	TTGGCTGAA	TCTCTTCAA	TCATATCTCA	CTGATCCAGT	960
	TTCTGATCCT	GAGTTTTCAT	AGGGATGCCG	TGGAAGGAA	CTGTATTATTA	TCAATGAATA	1020
	TGATACAAAT	CTTCTTGAAG	CTATATCTTA	CCTGACTGGG	GAGTGTAAAT	ATGGAGGAAG	1080
	AGTGACAGAC	GATTGGGACA	GACGTCTTCT	ATTAACCATG	CTGGCTGACT	TTTATAATCT	1140
	GTACATAGTT	GAAAACCTCT	ATTATAAGTT	TTCTCCAGT	GGAACTATT	TTGCACCTCC	1200
25	TAAAGGCAT	TATGAGGACT	ACATTGAATT	CATTAGGAAA	CTTCCATTTA	CTCAACACCC	1260
	TGAGATATTT	GGATTACATG	AAAAAGTTGA	CATCTCCAAG	GATCTTCAAC	AAACAAAAAC	1320
	CCTCTTTGAG	TGGGTGTGCC	TCACCCAGGG	AGGCTCCAAA	CAGACAGGAG	CCTCAGGAAG	1380
	TACTGATCAG	ATTCTGTAG	AAATTACCAA	AGATATCCTC	AACAAGCTCC	CTAGTGATT	1440
	CGACATTGAA	ATGGCACTAC	GGAAAGTATC	TGTGAGATAT	GAAGAAAGCA	TGAATACTGT	1500
30	GTTAGTACAA	GAAATGGAAA	GATTTAACAA	TTTAATTATA	ACTATACGTA	ACACTCTACG	1560
	GGACCTTGAA	AAAGCTATTA	AGGGTGTGGT	TGTGATGGAT	TCTGCATTGG	AGGCACTCTC	1620
	CAGTAGACTA	CTTGTGTGAA	AGGTTCCAGA	AATATGGGCC	AAACGTTTCA	ACCCAAGCCT	1680
	TAAGCCCCTG	GGAAAGTTACA	TCACAGATT	CCTAGCCCGG	TTGAACCTTT	TACAGGACTG	1740
	GTATAATTCA	GGAAAACCTT	GTGTGTTTGG	GCTGTGAGGT	TTCTTTTTCAT	CTCAGGCCTT	1800
35	TTAACTGGA	GCTATGCAGA	ATTATGCCAG	AAAATATACC	ACCCCTATTG	ATTGTCTAGG	1860
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	TATCCACGGA	CTGTATCTCG	ATGGCGCACG	CTGGGACCGA	GAAAGTGGAT	TGCTTGCTGA	1980
	ACAATATCCC	AAACTTCTGT	TTGACCTGAT	GCCCATCATA	TGGATAAAAC	CAACTCAAAA	2040
	ATCTCGGATT	ATAAAGTCGG	ATGCCATATG	CTGTCCCTCT	TACAAGACAA	GTGAACGTAA	2100
40	AGGAACTCTT	TCCACTACGG	GACATTCTAC	TAACTTTGTC	ATTGCAATGT	GTTFAAAAAC	2160
	AGACCAACCT	ACTCGGCACT	GGATCAAGCG	CGGGGTGCT	TTGCTTTGTC	AGTTGGATGA	2220
	CTAAATTGGA	CAAAATTATA	AAACATCCAA	AAGTTT			2256

Seq ID NO: C60 DNA Sequence
Nucleic Acid Accession #: J02761.1
Coding sequence: 14..1159

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50	GAATTCGGGT	GCCATGGCTG	AGTCACACCT	GCTGCACTGG	CTGCTGCTGC	TGCTGCCAC	60
	GCTCTGTGGC	CCAGGCACTG	CTGCCCTGGAC	CACCTCATCC	TTGGCCTGTG	CCCAGGGCCC	120
	TGAGTTCTGG	TGCCAAAGCC	TGGAGCAAGC	ATTGCACTGC	AGAGCCCTAG	GGCATTGCC	180
	ACAGGAAGTC	TGGGACATG	TGGGAGCCGA	TGACCTATGC	CAAGAGTGTG	AGGACATCGT	240
	CCACATCTCT	AACAAGATGG	CCAAGGAGGC	CATTTTCCAG	GACACGATGA	GGAAAGTTCT	300
55	GGAGCAGGAG	TGCAAGCTCC	TCCCTTGAA	GCTGCTCATG	CCCCAGTGCA	ACCAAGTGCT	360
	TGACGACTAC	TTCCCTCTGG	TCATCGACTA	CTTCCAGAAC	CAGACTGACT	CAAAACGGCAT	420
	CTGTATGCAC	CTGGGCTGTG	GCAAATCCCG	GCAGCCAGAG	CCAGAGCAGG	AGCCAGGGAT	480
	GTCCAGACCC	CTGCCCAAC	CTCTGCGGGA	CCCTCTGCCA	GACCTCTGCT	TGGACAAGCT	540
	CGTCTCTCT	GTGCTGCCCG	GGGCCCCCA	GGCGAGGCT	GGGCCTCACA	CACAGGATCT	600
60	CTCCGAGCAG	CAATTCCCCA	TTCTCTCTCC	CTATTGCTGG	CTCTGACAGG	CTCTGATCAA	660
	GGCGATCCAA	GCCATGATTC	CCAAGGGTGC	GCTAGCTGTG	GCAGTGGCCC	AGGTGTGCCG	720
	CTGTGTACTC	CTGTGGCGCG	GCGGCATCTG	CCAGTGCTCT	GCTGAGCGCT	ACTCCGTCAT	780
	CCTGCTCGAC	ACGCTGCTGG	GCCGCATGCT	GCCCCAGCTG	GTCTGCCGCC	TGCTCTCTCG	840
	GTGCTCCATG	GATGACAGCG	CTGGCCCAAG	GTGCGCGACA	GGAGAATGGC	TGCCGCGAGA	900
65	CTCTGAGTGC	CACCTCTGCA	TGTCCGTGAC	CACCCAGGCC	GGGAACAGCA	GCGAGCAGGC	960
	CATACCACAG	GCAATGTCTC	AGGCCTGTGT	TGGCTCCTGG	CTGACAGGGG	AAAGTGCATA	1020
	GCAATTGTGT	GAGCAGCACA	CGCCCCAGCT	GCTGACCCCT	GTGCCCAAGG	GCTGGGATGC	1080
	CCACACCACT	TGCCAGGCCC	TGGGGGTGTG	TGGGACCATG	TCCAGCCCTC	TCCAGTGTAT	1140
	CCACAGCCCC	GACCTTTGAT	GAGAACTCAG	CTGTCCAGCT	GCAAAGGAAA	AGCCAAAGTGA	1200
70	GACGGGCTCT	GGGACCATGG	TGACCAAGCT	CTTCCCTGCT	TCCCTGGCCC	TCCGACAGCT	1260
	CCAGGCTGAA	AAGAAGCCTC	AGCTCCCA	CCGCCCTCT	CACCTCCCTT	CCTCGGCACT	1320
	CACCTCCACT	GCTGGACCA	GGGCCCCCAG	CCCTGTGTCT	GCCTTGTCTG	TCTCAGCTCA	1380
	ACCACAGTCT	GACACAGAG	CCCACTTCCA	TCTCTCTG	TGTGAGGCAC	AGCGAGGGCA	1440
	GCATCTGGAG	GAGCTCTGCA	GCTTCCACAC	CTACCAAGAC	CTCCAGGGC	TGGGCTCAGG	1500
75	AAAAACAGC	CACCTGCTTA	CAGGACAGGG	GGTTGAAGCT	GAGCCCCGCT	TCACACCCAC	1560
	CCCCATGCAC	TCAAAGATTG	GATTTTACAG	CTACTTGCAA	TTCAAATTC	AGAAGAATAA	1620
	AAATTTGGAA	CATACAGAAC	TCTAAAGAT	AGACATCAGA	AATGTTTAAG	TTAAGCTTTT	1680
	TCAAAAAATC	AGCAATTCCC	CAGCGTAGTC	AAGGGTGGAC	ACTGCACGCT	CTGGCATGAT	1740
	GGGATGGCGA	CCGGGCAAGC	TTTCTTCTC	GAGATGCTCT	GCTGCTTGAG	AGCTATTGCT	1800
80	TTGTTAAGAT	ATAAAAGGG	GTTTCTTTT	GTCTTTCTGT	AAGGTGGACT	TCCAGATTTT	1860
	GATTGAAAGT	CCTAGGGTGA	TTCTATTCT	GCTGTGATTT	ATCTGCTGAA	AGCTCAGCTG	1920
	GGGTGTGCA	AGCTAGGGAC	CAATTCTCT	GTAATACAAT	GTCTGCACCA	ATGCTAATAA	1980
	AGTCTTATTC	TCTTTTTAAA	AAAAAAAAC	GAATTC			2026

Seq ID NO: C61 DNA Sequence

Nucleic Acid Accession #: NM_139172.1
Coding sequence: 19..552

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      CTGCAGGGCT CGGCAGACGG AATGGAATC CAGGGATTCT TCTACCCATG GAGCTGTGAG 120
      GGTGACATAT GGCACCGGGA GAGCTGTGGG GGCCAGGCGG CCATCGATAG CCCCAACCTC 180
10     TGCTTGCCTC TCCGCTGCTG CTACCGCAAT GGGGTCTGCT ACCACCGACG TCCAGACGAA 240
      AACGTGCGGA GGAAGCACAT GTGGGCGCTG GTCTGGACGT GCAGCGGCTC CCTCTCTCTG 300
      AGCTGCAGCA TCTGCTTGTG CTGGTGGGCC AAGCGCCGGG ACGTGTGCA TATGCCCGGT 360
      TTCTTGGCGG GTCCGTGTGA CATGTCCAAG TCCGTCTCGC TGCTCTCAA GCACCGAGGG 420
      ACCAAGAAGA CGCCGCTCAC GGGCAGCGTG CCAGTCGCCC TGTCCAAAGA GTCCAGGGAT 480
      TGGAGGGGAG GCACCGAGGG GGAAGGGACG GAGGAGGGTG AGGAGACAGA GGGCGAGGAA 540
15     GAGGAGGATT AGGGGAGTCC CCGGGGACT GCTCAATACA GATACGGTGG ACG 593

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Seq ID NO: C62 DNA Sequence
Nucleic Acid Accession #: NM_054023.2
Coding sequence: 98..379

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      ATTTTAAAC TCCTGAAAAA TATCCCAGAT AACTGTCATG AAGCTGGTAA CTATCTTCT 120
25     GCTGGTGACC ATCAGCCTTT GTAGTTACTC TGCTACTGCC TTCCCTCATCA ACAAGTGCC 180
      CCTTCCTGTT GACAAGTTGG CACCTTTACC TCTGGACAAC ATTCTTCCCT TTATGGATCC 240
      ATTAAAGCTT CTTCTGAAAA CTCTGGGCAT TTCTGTTGAG CACCTTGTGG AGGGGCTAAG 300
      GAAGTGTGTA AATGAGCTGG GACCAGAGGC TTCTGAAGCT GTGAAGAAAC TGCTGGAGGC 360
      GCTATCACAC TTGGTGTGAC ATCAAGATAA AGAGCGGAGG TGGATGGGGA TGAAGATGA 420
30     TGCTCCTATC CTCCTGCTCT GAAACCTGTT CTACCAATTA TAGATCAAAAT GCCCTAAAAAT 480
      GTAGTGACCC GTGAAAAGGA CAAATAAAGC AATGAATACT AAAAAAATAA AAAAAAATAA 540
      AAAAAAATAA

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Seq ID NO: C63 DNA Sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..2874

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      TGCACGTACA GAAACTGGCA TGCTGGCAGA ACACGTGGAA TTTGGCTGGG GCAGTTGGAG 180
      GAGAGATGTT CAGATGTGTT CGGAGTTTCT TTCTTCTGGT GGGTTCTGGG TCTCGCTGGC 240
45     TCAGGAGCGA ACATTCTGGA GGATGGCGAG CTTCAAGCCA GCCCAGGAAG GGGCTCCAC AGTGACGCGG 300
      CAGGCTGAAG CGCTCCTCAA GTGCCGCGAG AGTGGGCGTC CAGGCAGAGG AGGCGCGGAG 360
      AGCGAGCGAG CGAGGGATGC CAGCATGCTG TCACCTCTCA GTGCTGCCAT GCGAAACTAC 420
      CCAAGCTCCT CTACCATCCC TCCAAGAAGA TCCTACTCTC CAACCGAAAT TGCTCAACAG 480
      AGTTACTCCT GCAGCCTTCC AGACATGAAA ATCTCCATGG CAGAATCTGG CCCCTCCTTG 540
50     GATAGCCTTG ACATTCTGGA GGATGGCGAG TCTGGGTAC CATTCTTGT GACTCATTTG 600
      TACTTTCTGG GGGTGTCTAC CACTGGGATG GAACAACTAG ATTTTGAAC AGGACCAAAAC 660
      ATATTGTGAT TGCAGATTTA TGTGAAGGAT GAGGTTGGTG TCACAGACCT GCAAGTCTTG 720
      ACTGTCCAGG TAACAGATGT GAACGAGCCA CCTCAGTTTC AAGCCAACTT GGCAGAGAT 780
      CATCTCCGTG CAGACCAGCC ACATTTCAAT GCTCATAGTC ACACGTACGT GAGGGTAGTG 840
55     GCTACTGTCAT TGCCAGGCA CAGGCTTAGA TCTAGCATTG GTTCCCCCTT CTTGGGCACC 900
      TTCTGTGTG TGTTGGGCTG GCAGTATTTC CTGATTCTCT CCCCAGAGG CTTCAAGATG 960
      TCTGCTAATG GCACCTCTT CTCCAACA CAATTTGGAG TTGAAGCAGG ACACAGAAGT 1020
      TTCCATCTCA TCGTGGAGGT GAGGGACAGT GGAGGCTCA AAGCCTCCAC AGAGCTCCAG 1080
      GTGAACATCG TGAACCTCAA CGACGAAGTC CCTCGCTTTA CCAGCCCGAC ACGAGTGTAC 1140
60     ACAGTCCCTG AGGAACCTGAG TCCAGGAACC ATCGTGGCCA ATATCACAGC GGAGGATCCT 1200
      GATGATGAAG GTTTTCCAG CCACCTCCTC TACAGCATT CCACTGTTAG CAAATATTTT 1260
      ATGATAAATC AGTTGACTGG TACAATCCAA GTGGCCCAAA GGATAGACCG AGATGCAGGT 1320
      GAATTGAGAC AAAATCCAC CATTTCCCTG GAAGTTCTAG TGAAGGACAG ACCATATGGG 1380
      GGTCAGGAGA ATCGCATCCA GATAACCTTC ATTTGTGAAG ACGTCAACGA CAATCCTGCC 1440
65     ACATGCCAAA AGTTCACTT CAGATCCAGT CTCCACCCTG CTCTGTGCTC CAAGAGCTG 1500
      ACCTGGATGG ATACCGTATT AGACTGTTT CATGCTGCTG ATAAAGATAT ACCTGTGACT 1560
      GGGCGATTTA CAAAGAAAG AGGTTTAATT GGACTTACAG TTCCACATGG CTGGGGAGGC 1620
      CTCACATCCA TGCGAGAAGG CAAGGAGGAG CAAGTCAAT CTTACATGGA TGGCAGCAGG 1680
      CAAAGAGATA GAGCTTGTGT AGGGAAACTC CTCTTATATA AGCCATCAGA TCTCATGAGA 1740
70     CTTAGTCACT ATCACGAGAA CAACTCAGGA AAGACTTGCC CCCATGATTC CATTCTCTCC 1800
      TACCAGGTCC TCCCCAAC ATGTAGGAAT TCAAGAAATCC AGGCCACCAA CAAOGAAGAC 1860
      ACAAGCTCTG TCACTGTTAC TGTGAACATC CTTGAAGAAA ATGATGAAAA GCCAATTGTG 1920
      ACTCCAAACT CTTATTCTCT GGCCTCCCA GTGGATCTGA AAGTTGGCAC AAATATTGAG 1980
      AATTTCAAGC TGACATGTAC GCACCTTGAT TCCAGCCCCA GATCTTTCCG TTATTCCTAT 2040
75     GGCCAGGTA ACGTCAACAA TCATTTCACC TTCTCTCCA ATGCTGGTTC CAATGTACA 2100
      CGCTGCTGCT TTACTCTCG CTTTGACTAT GCTGGTGGGT TTGATAAGAT CTGGGACTAC 2160
      AAGTCAATG TCTACGTAAC TGATGACAAC TTGATGCTG ACAGGAAGAA AGCGGAGGCT 2220
      CTTGTTGAGA CAGGAACAGT GACACTGAGT ATTAAGTCA TTCCCCCCC AACCACTATC 2280
      ATCACCACGA CCCCAGGCC CAGGGTCACC TATCAGGTCC TGAGGAAAAA CGTTTACTCT 2340
80     CCATCTGCAT GGTACGTGCC GTTTGTATC ACTTTGGGCT CCATATTGCT TCTGGGTCTC 2400
      CTGCTGTACC TGTGCTCTCT ATTGGCCAAA GCCATCCACA GACACTGCCC CTGCAAGACT 2460
      GGAAGAACA AGGAACCTCT GACAAAGAAA GGAGAAACGA AGACTGCAGA GAGAGACGTC 2520
      GTGGTGGAAA CTATCCAGAT GAACACTATC TTTGATGGAG AAGCCATAGA TCCAGAGCCT 2580
      GAGCAAGCTT CACTCGAGCT CTATGCCCTG CTGCCAGCT GCTGGCAGCC TAGTCCAGTA 2640
      ACCCTAAGAA AGGTCCAGGT GTGTGGGGAG AGTGAAGAGA CCGTCACTG TTCCGGCCAC 2700

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ATCACACTTC CCGGCAAGAT TCCAGTCGAT GACCCAAGGA AACAGGAAAC AGGCCTGCAG 2760
 GGTGATTTCG AGGTCTGGAC TCTATGCCCC GCTGTGAAGG TGGTTGTAGG CAGCCCTCAA 2820
 GCTGAACGGT GCATTTCGATT GGCTCTCAGT CTGAAAAAGT ACAGTTCTGA TTAA 2874

5

Seq ID NO: C64 DNA Sequence
 Nucleic Acid Accession #: XM_168571.1
 Coding sequence: 155..988

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 15 GGTGAATTGA GACAAAATCC CACCATTTCCT CTGGAAGTTC TAGTGAAGGA CAGACCATAT 240
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 GCCACATGCC AAAAGTTTAC CTTACGATT ATGGTGCCGG AAAGAACAGC CAAGGGGACG 360
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 TTCAACTTCA CCATGCCATC TGGAGTGGGG AGCGGCAGCA GATTTTACA GGATCCAGCT 480
 20 GGCTCTGGGA AGATTGTGCT GATTGGTGTG CTAGACTACG AAAATCCAAG TAACCTAGCA 540
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 CTTGAGGAAA AACGTTTACT CTCCATCTGC ATGGTACGTG CCGTTTGTCA TCACCTTGGG 780
 25 CTCCATATTG CTCTGGGTC TCCTCGTGTG CCTGGTCTGT CTATTGGCCA AAGCCATCCA 840
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Seq ID NO: C65 DNA Sequence
 Nucleic Acid Accession #: NM_005266.3
 Coding sequence: 122..1198

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5 AAAGTTCCCA GCCAATAGAC AGCATGAATC AAGGAACCTG CATTATATGT GCTCTTGAAT 1680
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Seq ID NO: C66 DNA Sequence
 Nucleic Acid Accession #: NM_014459.2
 Coding sequence: 738..3407

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 65 TGACGCGCGT GGTGGAGCTG GTGGTGAAG TGACCGACCA CGGCAAGCCT ACCCTGTCCG 2760
 CAGTGGCCAA GCTCATCATC CGCTCGGTGA GCGGATCCCT TCCGAGGGGG GTACCAAGGG 2820
 TGAATGGCGA GCAGCACCACT TGGGACATGT CGCTGCGCTG CATGCTGACT CTGAGCACTA 2880
 TCTCATCAT CTCTAGCGG GGCATGATCA CCATGCGCGT CAACTGCAAG CGCGAGAAC 2940
 AGGAGATCCG CACTTAAAC TGCGCATCG CCGAGTACAG CCACCGCAG CTGGGTGGGG 3000
 70 GCAAGGGCAA GAAGAAGAAG ATCAACAAA ATGATATCAT GCTGGTGCAG AGCGAAGTGG 3060
 AGGAGAGGAA CGCCATGAAC GTCATGAAG TGGTGAGCAG CCCCTCCCTG GCCACCTCCC 3120
 CCATGTACTT CGACTACCA ACCCGCTGCG CCCTCAGCTC GCGCGCGTGG GAGGTGATGT 3180
 ATCTCAAAAC GGCCTCCAAC AACCTGACTG TCCCTCAGGG GCAAGCGGGG TGCCACACCA 3240
 GCTTCAACGG ACAAGGAGCT AATGCAAGCG AGACCCCTGC CACTCGGATG TCCATAATTC 3300
 75 AGACAGACAA TTTTCCCGCA GAGCCCAATT ACATGGGCG CAGGAGCAG TTTGTTCAAA 3360
 GTATTTCACT AGCTCCAGCT TTAAGGACCC AGAAAGAGCC AGCCTGAGAG ACAGTGGGCA 3420
 CGGGGACAGT GATCAGGCTG ACAGTGACCA AGACACTAAC AAAGGCTCCT GCTGTGACAT 3480
 GTCTGTAGG GAGGCACTCA AGATGAAAAC TACTTCAACT AAAAGCCAAC CACTTGAACA 3540
 AGAACAGAA GAGTGTGTTA ATTGCACAGA TGAATGCCGA GTGCTTGGTC ATCTGACAG 3600
 80 GTGCTGGATG CCACAGTTCC CTGACGCCAA TCAGGCTGAA AATGAGATT ACCGCACAA 3660
 TCTCTTTGTA CTTACAGTTG AAGCTAATGT TGAGACTGAG ACTTACGAAA CTGTGAATCC 3720
 CACTGGGAAA AAGACTTTT GTACATTGG AAAAGACAAG CGAGAGCACA CTATTCTCAT 3780
 TGCCAAAGTT AACTCTTATT TAAAGGCCAA ACGTGGCGCT AGCCCTCTCC TCCAAGAGGT 3840
 CCCTCAGCA TCAAGCAGCC CAACCAAGGC GTGCATCGAG CTTTGCACCT CAACAAAAGG 3900
 CTCCTGGAT GCGTGTGAAG CAAAACGAG AGCCCTGGCT GAAGCAAGCA GTCACTACT 3960
 GCCCACTGAC AGTCAATATC TGTCACTAG TAAGCAACCA AGAGACCTC CTTTCACTGG 4020

5 TTCCGATCAG ATGGCAAGGG TCTTTGCAGA TGTGCATTCC AGAGCCAGCC GGGATTCCAG 4080
 TGAGATGGGT GCTGTTCTTG AGCAGCTTGA CCACCCCAAC AGGGATCTGG GCAGAGAGTC 4140
 TGTGGATGCA GAGGAAGTTG TGAGAGAAAT TGATAAGCTT TTGCAAGACT GCCCGGGAAA 4200
 CGACCCCTGT GCTGTGAGAA AGTGAAAAAA GAAAAAAGAA AAGGCATTGG CATTTCCTTG 4260
 TCTCTTCTGT TGATTTAATA ATGATCCCTC CTGGTGATAA CCCATTTTAC AGGGATGAAG 4320
 AAAGACCAAT GCTGCTTTAA GGCTTTTAGT GAACATCTGA AGTGCCCAACA AGTATGTTCT 4380
 TTCCACTGCT GATTTCCTTT TCAGAGATAA CAATGGTTTC GTTTTGACCA AACTTGTATT 4440
 AGGACAGAAT TAATGATGCT TAAAGAGAAA AGAAAAAAG AGAGAAGAAA AAGGAGAGAT 4500
 10 GAAAAAGGAG GATGAGGAGA AGAATTACCT TTTGACAATC TGTTAGGAAG GTATGCAGTG 4560
 TGAGAACTGA AGTATTTCTG ATCACTCTCA GACTGTCTCT CGTGATTTAT GCTGACTTAA 4620
 CTGTTTACCT ATAAACCCCA TACAAAGCAG GGTCAATAAT TGTGATCTGT GGTGGATTTC 4680
 TAGCAGTCAT CACAGGCTTC TACTGAAAGT CCTGAAAGA CCTGCACTA GTCCAAGCTA 4740
 CACCAACAT TAACACATAT TTGTGGTAAA CATTTCCTGA TAAAGTTACC TGACACACAT 4800
 15 ATAAACACAA GGAACATTCC ATATCATTAG TCGAAAAACA AAACAAAAAA AAAACCTTTG 4860
 GTCAATTGTA AGACATCTCA TGTCAATAAA AAGTTAAATG TAAAAAGATA CAGTCCATT 4920
 GTCTCTGCAC ACACGTAGAC TAATTACGT CAAAAAATAA AAAAAA 4966

Seq ID NO: C67 DNA Sequence

Nucleic Acid Accession #: NM_005601.2

Coding sequence: 101..598

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1	11	21	31	41	51	
CCCAGGAGTC	TGGGTGCACA	GCCTCCTTCT	CTCTGAGATT	CAAGAGTCTG	ATCAGCAGCC	60
TCTTCTCCT	CCAGGACCCA	GAAGCCCTGA	GCTTATCCCC	ATGGAGCTCT	GCCGGTCCCT	120
GGCCCTGTCT	GGGGGCTCCC	TGGGCTGAT	GTCTGCTG	ATTGCTTTGA	GCACCGATT	180
CTGGTTGAG	GCTGTGGGTC	CCACCCACTC	AGCTCACTCG	GGCCTCTGGC	CAACAGGGCA	240
TGGGACATC	ATATCAGGCT	ACATCCACGT	GACGCGAGCC	TTCAGCATTA	TGGCTGTTCT	300
GTGGGCGCTG	GTGTCCGTGA	GCTTCTTGGT	CCTGTCTCTG	TTCCTCTCAC	TGTTCCCTCC	360
AGGCCACGGC	CCGCTGTGCT	CAACCAACCG	AGCCTTTGCT	GCAGCCATCT	CCATGGTGGT	420
GGCCATGGCG	GTGTACACCA	GCGAGCGGTG	GGACCAAGCT	CCACACCCCC	AGATCCAGAC	480
CTTCTTCTCC	TGCTCTCTCT	ACCTGGGCTG	GGTCTCAGCT	ATCCTCTTGC	TCTGTACAGG	540
TGCCCTGAGC	CTGGGTGCTC	ACTGTGGCGG	TCCCGCTCCT	GGCTATGAAA	CCTTGTGAGC	600
AGAAAGCAAG	AGGGGCAAGA	TGAGTTTGA	GCGTTGTATT	CCAAAGGCTC	CATCTGGAGC	660
CTCGGGAAG	TCTGGTCTTA	CATTGCCCCG	CCCTTCCAGC	CCTTCCCCAG	CCCCTCTCT	720
TGTTTCTTCA	TTCAATCAAC	AAAATTGGC	TGAAAAAATA	AAAAAATAA	AAAAAATAA	780
AAA						783

Seq ID NO: C68 DNA Sequence

Nucleic Acid Accession #: NM_006433.2

Coding sequence: 129..566

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AAAGATTAA	CTGCAGGCTC	CCTGCCCAT	AAACAGGGTG	TGAAAGGCAT	CTCAGCGGCT	120
GCCCCACCAT	GGCTACCTGG	GCCCTCCTGC	TCCTTGCAAG	CATGCTCCTG	GGCAACCCAG	180
GTCTGTCTTT	CTCTGTCTCT	AGCCCTGAGT	ACTACGACCT	GGCAAGAGCC	CACCTGCGTG	240
ATGAGGAGAA	ATCCTGCCCG	TGCCCTGGCC	AGGAGGGCCC	CCAGGGTGAC	CTGTGACCA	300
AAACACAGGA	GCTGGGCGGT	GACTACAGGA	CCTGTCTGAC	GATAGTCCAA	AAACTGAAGA	360
AGATGGTGA	TAAGCCACCC	CAGAGAAATG	TTTCCAATGC	TGCCAGCCCG	GTGTGTAGGA	420
CGGGGAGGTC	ACGATGGCGC	GACGTCTGCA	GAATTTTCAT	GAGGAGGTAT	CAGTCTAGAG	480
TTACCCAGGG	CCTCGTGGCC	GGAGAACTG	CCCAGCAGAT	CTGTGAGGAC	CTCAGGTTGT	540
GTATACCTTC	TACAGGTCCT	CTCTGAGCCC	TCTCACTTTG	TCCTGTGGA	GAAGCACAGG	600
CTCCTGTCT	CAGATCCCGG	GAACCTCAGC	AACCTCTGCC	GGCTCTCTGC	TTCCTCGATC	660
CAGATCCAC	TCTCCAGTCT	CCCTCCCCTG	ACTCCCTCTG	CTGTCTCTCC	CTCTCACAG	720
AATAAAGTGT	CAAGCAAG					738

Seq ID NO: C69 DNA Sequence

Nucleic Acid Accession #: NM_002985.2

Coding sequence: 69..344

65
 70
 75
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1	11	21	31	41	51	
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CAGGTACCAT	GAAGGTCTCC	GCGGCAGCCC	TCGCTGTCT	CCTCATTTGT	ACTGCCCTCT	120
GCGCTCTTGC	ATCTGCCTCC	CCATATTCTT	CGGACACACC	ACCTGTCTGC	TTTGCTTACA	180
TTGCCCGCCC	ACTGCCCGGT	GCCCACTCA	AGGAGTATTT	CTACACCAAT	GGCAAGTGCT	240
CCAAACCCAGC	AGTCGTCTTT	GTCACCCGAA	AGAAACCGCA	AGTGTGTGCC	AACCCAGAGA	300
AGAAATGGGT	TCGGGAGTAC	ATCAACTCTT	TGGAGATGAG	CTAGGATGGA	GAGTCTTTGA	360
ACCTGAACTT	ACACAAATTT	GCCTGTTTCT	GCTTGCTCTT	GTCTAGCTTT	GGGAGGCTTC	420
CCCTCACTAT	CCTACCCAC	CCGCTCTCTG	AAGGGCCAG	ATTCTACCAC	ACAGCAGCAG	480
TTACAAAAAC	CTTCCCCAGG	CTGGAAGTGG	TGGCTCACGC	CTGTAATCCC	AGCACTTTGG	540
GAGGCCAAGG	TGGGTGGATC	ACTTGAGGTC	AGGAGTTGGA	GACCAGCCTG	GCCAACTAGA	600
TGAAACCCCA	TCTTACTATA	AAATACAAAA	AATTAGCCGG	GCGTGGTAGC	GGCGGCTGCT	660
AGTCCAGCTT	ACTCGGAGG	CTGAGGCAGG	AGAATGGCGT	GAACCCGGGA	GGCGGAGCTT	720
GCACTGAGCC	GAGATCGCGC	CACCTGCACT	CAGCCTGGGC	GACAGAGCGA	GACTCCGTCT	780
CAAAAAAATA	AAAAAATAA	AAAAATACAA	AATTAGCCGG	GCGTGGTGGC	CCACGCTGCT	840
AATCCAGACT	ACTCGGAGG	CTAAGGCAGG	AAAAATGTTT	GAACCCAGGA	GGTGGAGGCT	900
GCACTGAGCT	GAGATTGTGC	CACCTTCACT	CAGCCTGGGT	GACAAAGTGA	GACTCCGTCA	960
CAACAACAAC	AACAAAAAGC	TTCCCCAACT	AAAGCCTAGA	AGAGCTTCTG	AGGCGCTGCT	1020
TTGTCAAAAG	GAAGTCTCTA	GGTCTGAGC	TCTGGCTTTG	CCTTGGCTTT	GCCAGGGCTC	1080

TGTGACCAGG AAGGAAGTCA GCATGCCTCT AGAGGCAAGG AGGGGAGGAA CACTGCACTC 1140
 TTAAGCTTCC GCGTCTCAA CCCCTCACAG GAGCTTACTG GCAAACATGA AAAATCGGCT 1200
 TACCATTAAA GTTCTCAATG CAACCATAAA AAAAAAA 1237

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Seq ID NO: C70 DNA Sequence
 Nucleic Acid Accession #: NM_022154.2
 Coding sequence: 1381..1722

10 1 11 21 31 41 51
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 AGTGTGGTTT TAGTTTTTCC TAAGAAGTGG CGTGGTTTGG GGCTTTATAT CCGGGAGGAG 60
 CATATGTACG CAAATCTCGG GCGGTTTGCA AACCCGGATC CCGGGCGTCT GGCCCCATGC 120
 CCGGCCGGGC GTTTGAGGGC TACTGCCACG CAGCGTTTCT GGAGCCTGCC GGCTGGTGCC 180
 15 CTGGTGGCCT TTATCTCTGT CCCCTTTTGT CCTCTTATC TCAGGCTCTC CAGGAGGGCG 240
 GGGGGCCGAC TCCGCTATC GCTCCCTCG GCTACGCTGC CACTCCAATG CCGCGACGT 300
 CGCGAGCTGC TGTCTTTTCG AAGCGCGCG AGAACCGGG GCGTCCCGGG CCACCTCTGA 360
 CTCGGAGCAG CGCGAGCAC TGACGCTCCC GCCCTTGGGC AAGGACGCCA GTGCGCCCGC 420
 GCGGCTGCGT CTGCGCGGCA GCCCGTCCGG GCCCTCAAG GGGAAAGCCA GGCCAGGATG 480
 20 GCCCGGGGTC GCGCGGTGGC CGGGCTCCTG TTGCTGGCGG CCGCGGGCCT CGGAGGAGTG 540
 GCGGAGGGGC CAGGCTAGC CTTAGCGGAG GATGTGCTGA GCGTGTTCGG CGCGAATCTG 600
 AGCGTGTCCG CGCGCGAGCT CCAGCACTTG CTGAGCAGA TGGAGCCGCG CTCGCCGTG 660
 GCGTCCCGG AGCGTGCCA GCTGCACTTC AACCACTGTT TAACCTGTGA AGAGATCTTT 720
 TCCCTTCATG CTTTTCCTCA TGCTACCCAA ATAACCGAGT CCAATTTCTC TGTCTCTGT 780
 25 CCAGCAGTCT TACAGCAATT GAATCTTTC CCAATGTGAG ATCGGCCCAA GCACAAAACA 840
 AGACCAAGTC TCTCAGAGT TTGGGGATAT GGATTCCTGT CAGTGACGAT TATTAATCTG 900
 GCATCTCTCC TCGATTGAT TTTGACTCCA CTGATAAAGA AATCTTATTT CCCAAAGATT 960
 TTGACCTTTT TTGTTGGGCT GGCTATTGGG ACTCTTTTTT CAAATGCAAT TTTCACACTT 1020
 ATTCCAGAGG CATTGTGATT TGATCCCAA GTGACAGATT ATGTTGAGAA GGCAGTTGCT 1080
 30 GTGTTTGGTG GATTTTACCT ACTTTTCTTT TTGAAAGAA TGCTAAAGAT GTTATTAAAG 1140
 ACATATGGTC AGAATGGTCA TACCACTTTT GGAATGATA ACTTTGGTCC TCAAGAAAAA 1200
 ACTCATCAAC CTAAAGCATT ACCTGCCATC AATGGTGTGA CATGCTATGC AAATCTCTGT 1260
 GTCACAGAAG CTAATGACA TATCCATTTT GATAATGTCA GTGTGGTATC TCTACAGGAT 1320
 GGAAAAAAG AGCCAAAGTT ATGTACCTGT TTGAAGGGGC CCAACTGTCT AGAAATAGGG 1380
 35 ACGATTGCCCT GGATGATAAC GCTCTGCGAT GCCCTCCACA ATTTTCATGA TGGCTTGGCG 1440
 ATTGGGGCTT CTTGACCTT GTCTCTCTTT CAGGGACTCA GTACTTCAT AGCAATCCTA 1500
 TGTGAGGAGT TTCCCCACGA GTTAGGAGAC TTTGTGATCC TACTCAATGC AGGGATGAGC 1560
 ACTCGACAAG CCTTGCTATT CAACTTCTTT TCTGCATGTT CCGCTATGT TGGGCTAGCT 1620
 TTTGSCATTT TGGTGGGCAA CAATTTGCTT CCAATATTTA TATTTGACT TGTGGAGGC 1680
 40 ATGTTCTCTT ATATTCTCT GGCAGATATG TTTCAGAGA TGAATGATAT GCTGAGAGAA 1740
 AAGGTAACTG GAAGAAAAAC CGATTTCACC TTCTTCATGA TTCAGAATGC TGGAAATGTTA 1800
 ACTGGATTCA CAGCCATTCT ACTCATTACC TTGTATGCAG GAGAAATCGA ATTGGAGTAA 1860
 TAGAAATGG AAGATGGTGT TGTTAATAAA GGCATTTRAAT AGATAAAAC ATCTCCAAAA 1920
 AGGATTTTGA AGCTGATCTT ATTTAGTTAA AAGATAAATT TTGCTTTCAA CTGTAGGTCC 1980
 45 AGAAAACTAA TTATTGGCAT CAGTCTGTGA AATAGTCCAT TATTTGTGT TAAAAATGCT 2040
 TCAAAAGGTC TTCAATGTCA GTCTGAGATG CCGGTATAT AGGAGCCTTT GGGAAATACT 2100
 TATTTTTCAG TATTCATGCA ATATTAGATA TCACCATGAA GCAAGAGACA TGCTATCTAT 2160
 AATCATGTAG ACACCTCAGC TCAGGGGAAA ATACAGTTA TATCTTGAAA GCCTTTAAAA 2220
 50 CTCTATGGTA GGATCAAAGA TTCAAATGGT TTCAGAGAGG TTTTATTTCA ATTAATTTGT 2280
 TCTAGTGCTT TCAAGAGCAA GTACATCAA ATGTAGAGG TAAATGTAT GCAACACTAA 2340
 TATAAATTAT TCCAAGCTT TAAGGAGCCA AAGAAAAAAA AGATTCTCA CAGCTTTTGT 2400
 TTCTGTTTGT TATTTCAATT AGGAACCTGC AGTATTATTT TGAACCCTAT TCTAAATATA 2460
 TAGGAGTTAG GAAATAAATA AAGTTTGTCT AGCCCTGCTA AGTTCAAGCT TAGAGGCTTA 2520
 55 TCCTAAGTN TAAACTTCAC CAGATTCCAC GAAAAGCTGG ATAGCTTTT TTCTGACTTA 2580
 TGTGTGGTGT GCACCCCTCA CAAATGGCAG AACAGTATGT AAAGCTGGTA ACACCTCGGT 2640
 TTCAGTGACG CATGTGTTTG CTTTGTGAAG GTGAAGAATA TGTGGTTTGA GAGAAAGAAA 2700
 TTGATGTAA TTTTATGCAA TTTACTTTTA AAGACAAACA TAACATTTTA GCAGAGAATA 2760
 TTTTATAAAA TGCAAAACAA CAGCTGGACT GCTGTACATC AAGGACAGAT TAACCTGGAA 2820
 60 ACATATGTTT CTATTGTGTG ATTGAGAGCC ATTCAGAAAA GACTTCTTT GTGTTGAGCC 2880
 TATACTTTTC CATATGGTAT ACCTTGAAAA AAATTAGCAC ACCATGGTGA TTTTCTTACC 2940
 TTTTATAAAA GACAGAGCCT GTTACTCAT TTAGAAGATA GAGAAAATTG GTCTAAAATT 3000
 GAACATCTCA GATTCACTCT CCCAGTCAC TTAAGGTGAT TTGATGGTGA GAAAAATGAT 3060
 TGACAAAGCC CAACAATGAT CTCAGGAATT ACATTTTCCA ACAGACAAA AAATGTTTTT 3120
 65 ATGTAGCAGC AATGCAGATT TGGTGAATAT TTAATATATA TTTTAGTATG TATTTCACTT 3180
 TATGACTGAC AATTAATAAA TATGTTTGG CCAATAGTA AACACCTTTT TGAAGCATG 3240
 AAAAAA 3246

70

Seq ID NO: C71 DNA Sequence
 Nucleic Acid Accession #: NM_004184.2
 Coding sequence: 188..1603

75 1 11 21 31 41 51
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 CGAAAAAAGA GGGGAAGAGT ATTAAGAGAC ATTTCTGGCT GGGCAGGGCA CTCTCAGCAG 60
 CTCACTGCCC CAGCGTGACC AGTGGCCACC TCTGCAGTGT CTTCCACAAC CTGGTCTTGA 120
 CTGCTCTGCT GAACAATACC TCTGACCTCA GCGCGCTGT GAACGTAGTT CCTGAGAGAT 180
 AGCAAAACATG CCCAACAGTG AGCCCGCATC TCTGCTGGAG CTGTTCAACA GCATCGCCAC 240
 80 ACAAGGGGAG CTCGTAAGGT CCTCAAAGC GGGAAATGCG TCAAAAGGATG AAATGATTTC 300
 TGCACTAAG ATGTTGGTGT CATTAATAAT GAGCTACAAA GCTGCCGCGG GGGAGGATTA 360
 CAAGGCTGAC TGTCTCCAG GGAACCCAGC ACCTACCACT AATCATGGCC CAGATGCCAC 420
 AGAAGCTGAA GAGGATTTTG TGGACCCATG GACAGTACAG ACAAGCAGTG CAAAAGGCAT 480
 AGACTACGAT AAGCTCATTG TTCGTTTGG AAGTAGTAAA ATTGACAAAG AGCTAATAAA 540
 CCGAATAGAG AGAGCCACCG GCCAAAGACC ACACCACTTC CTGCGCAGAG GCATCTTCTT 600

	CTCACACAGA	GATATGAATC	AGGTTCTTGA	TGCCTATGAA	AATAAGAAGC	CATTTTATCT	660
	GTACACGGGC	CGGGGCCCTT	CTTCTGAAGC	AATGCATGTA	GGTCACCTCA	TTCCATTTAT	720
	TTTCACAAAG	TGGCTCCAGG	ATGTATTTAA	CGTGCCCTTG	GTCATCCAGA	TGACGGATGA	780
5	CGAGAAGTAT	CTGTGGAAGG	ACCTGACCCT	GGACACGGCC	TATGGCGATG	CTGTGAGAA	840
	TGCCAAGGAC	ATCATCGCCT	GTGGCTTTGA	CATCAACAAG	ACTTTCATAT	TCTCTGACCT	900
	GGACTACATG	GGGATGAGCT	CAGGTTTCTA	CAAAAATGTG	GTGAAGATTC	AAAAGCATGT	960
	TACCTTCAAC	CAAGTGAAAG	GCATTTTCGG	CTTCACTGAC	AGCGACTGCA	TGGGAAGAT	1020
	CAGTTTTCCT	GCCATCCAGG	CTGCTCCCTC	CTTCAGCAAC	TCATTCCCAC	AGATCTTCCG	1080
10	AGACAGGACG	GATATCCAGT	GCCTTATCCC	ATGTGCCATT	GACCAGGATC	CTTACTTTAG	1140
	AATGACAAAG	GAGCTCGCCC	CCAGGATCGG	CTATCTCTAA	CCAGCCCTGT	TGCACTCCAC	1200
	CTTCTTCCCA	GCGCTGAGG	GCGCCAGAC	CAAAATGAGT	GCCAGCGACC	CAAACTCCTC	1260
	CATCTTCTCT	ACCGACACGG	CCAAGCAGAT	CAAAACCAAG	GTCATTAAGC	ATGCGTTTTC	1320
	TGGAGGGAGA	GACACCATCG	AGGAGCACAG	GCAGTTTGGG	GGCAACTGTG	ATGTGGACGT	1380
	GTCTTTCATG	TACCTGACCT	TCTTCTCGA	GGACGACGAC	AAGCTCGAGC	AGATCAGGAA	1440
15	GGATTACACC	AGCGGAGCCA	TGCTCACCGG	TGAGCTCAAG	AAGGCACTCA	TAGAGGTTCT	1500
	GCAGCCCTTG	ATCGCTGAGC	ACCAGGCCCG	GCGCAAGGAG	GTCACGGATG	AGATAGTGAA	1560
	AGAGTTTCATG	ACTCCCCGGA	AGCTGTCTCT	CGACTTTCAG	TAGCACTCGT	TTTACATATG	1620
	CTTATAAAAG	AAGTGATGTA	TCAGTAATGT	ATCAATAATC	CCAGCCCACT	CAAAAGCACCG	1680
20	CCACCTGTAG	GCTTCTGTCT	CATGGTAATT	ACTGGGCCCTG	GCCTCTGTAA	GCCTGTGTAT	1740
	GTATACAATA	CTGTTTCTTC	CTGTGAGTTC	CATTATTTCT	ATCTCTTATG	GGCAAAAGCAT	1800
	TGTGGGTAAT	TGGTGTCTGC	TAACATTGCA	TGGTCGGATA	GAGAAGTCCA	CTGTGTAGTC	1860
	TCTCCCAAAA	GCAGCCCCAC	AGTGGAGCCT	TGGCTGGGAA	GTCATGGGCG	CACCTGTGTC	1920
	TTGTCCATGG	AGGACTTCCG	AGGGTTCCAA	GTATACTCTT	AAGACCCACT	CTGTTTAAAA	1980
25	ATATATATTC	TATGTATGCG	TATATGGAAT	TGAAATGTCA	TTATTGTAACT	CTAGAAAGTG	2040
	CTTTGAAATA	TGTATGTGGG	GAGGTTTAT	GAGCACAAAG	TGTATTTCAG	CCCATGCCCC	2100
	CTCCCCAAAA	GAAATTGATA	AGTAAAAGCT	TGCTTATACA	TTGACTAAG	AAATCACCCTA	2160
	GCTTTAAAGC	TGCTTTTAA	AATGAAGATT	GAAACAGATT	CAGCAATTTT	GATTAAATTA	2220
	AGACTTGGGG	GTGAACTTT	CCAGTTTACT	GAACTCCAGA	CCATGCAATG	AGTCCACTCC	2280
30	AGAAATCATG	CTCGCTTCCC	TGGCACACCC	AGTGTCTCC	TGCCAAATGA	CCCTAGACCC	2340
	TCTGTCTGCG	AGAGTCAGGG	TGGCTTTTCC	CCTGACTGTG	TCCGATGCCA	AGGAGTCTGT	2400
	GCCTCCGACG	ATGCTTCATT	TTGACCCCTG	GCTGCAGTGG	AAGTCAGCAC	AGAGCAGTGC	2460
	CCTGGCTGTG	TCTTGGACCG	GTGGACTTAG	CTAGGGAGAA	AGTCGAGGCA	GCAGCCCTCG	2520
	AGGCCCTCAC	AGATGTCTAG	GCAGGCCCTCA	TTTCATCACG	CAGCATGTGC	AGGCCCTGGAA	2580
35	GAGCAAGGCC	AAATCTCAGG	GAAGTCTCTG	GTTGATGTAT	CTGGGTCTCC	TCTGGAGCAC	2640
	TCTGCCCTCC	TGTCACCCAG	TAGAGTAAAT	AAACTTCCTT	GGCTCCTAAA	AAA	2693

Seq ID NO: C72 DNA Sequence
Nucleic Acid Accession #: NM_004938.1
Coding sequence: 337..4632

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	CGGAGGACAG	CCGAGACCGAG	CCAACGCGCG	GGACTTTGTT	CCCTCCACGG	AGGGGACTCG	60
45	GCAACTCGCA	GCGGAGGGGT	CTGGGCGCGG	CGCCTGGGAG	GGATCTGCGC	CCCCCACTCA	120
	CTCCCTAGCT	GTGTTCCCGC	CGCCGCCCCG	GCTAGTCTCC	GGCGCTGGCG	CCTATGGTGC	180
	GCCTCCGACA	GCGCTCCGGA	GCGACCGGGG	GAGCTCCAG	GCGCCCGGGA	CTGGAGACTG	240
	ATGCATGAGG	GGCTACCGGA	GGCGCAGGAG	CGGTGCTGAT	GGTCTGGGAA	GCGGAGCTGA	300
	AGTCCCTGCG	GCTTTGGTGA	GGCGTGACAG	TTTATCATGA	CGGTGTTTCA	GCAGGAAAAA	360
50	GTGSGATGAT	ACTAGACAC	CGCGGAGGAA	CTTGGCAGTG	GACAGTTTTC	GGTGTGTAAG	420
	AAATGCGCGT	AGCAAAAGTAC	CGGCCCTCCAG	TATGCCGCCA	AATTATCATCA	GAAGAGGAGG	480
	ACTAAGTCCA	GCGGGCGGGG	TGTGAGCCCG	GAGGACATCG	AGCGGGAGGT	CAGCATCCTG	540
	AAGGAGATCC	AGCACCCCAA	TGTATCATCC	CTGCACGAGG	TCTATGAGAA	CAAGACGGAC	600
	GTCATCCTGA	TCTTGGAACT	CGTTGCAGGT	GGCGAGCTGT	TTGACTTCTT	AGCTGAAAAA	660
55	GAATCTTTAA	CTAGAGAGGA	AGCAACTGAA	TTTCTCAAAC	AAATTCTTAA	TGGTGTTTAC	720
	TACCTGCACCT	CCCTTCAAAT	CGCCCACTTT	GATCTTAAAG	CTGAGAACAT	AATGCTTTTG	780
	GATAGAAATG	TCCGCCAAAC	TCGGATCAAG	ATCATTTGACT	TTGGGTGTCG	CCATAAAATT	840
	GACTTTGGAA	ATGAATTTAA	AAACATATTT	GGGACTCCAG	AGTTTGTGCG	TCTTGAGATA	900
	GTCAACTATG	AACCTCTTGG	TCTTGAGGCA	GATATGTGGA	GTATCGGGGT	AATAACCTAT	960
60	ATCCTCCTAA	GTGGGGCCTC	CCCATTTCTT	GGAGACACTA	AGCAAGAAAC	GTTAGCAAAT	1020
	GTATCCGCTG	TCAACTACGA	ATTTGAGGAT	GAATACTTCA	GTAATACCCG	TGCCCTAGCC	1080
	AAAGATTTCA	TAAGAAGACT	TCTGGTCAAG	GATCCAAAGA	AGAGAATGAC	AATTCAAGAT	1140
	AGTTTGCAGC	ATCCCTGGAT	CAAGCCTAAA	GATACACAAC	AGGCACTTAG	TAGAAAAGCA	1200
	TCAGCAGTAA	ACATGGAGAA	ATTCAAGAAG	TTTGACGCC	GGAAAAATG	GAACCAATCC	1260
65	GTTCGCTTGA	TATCACTGTG	CCAAAGATTA	TCCAGGTCAT	TCTGTGCCAG	AAGTAACATG	1320
	AGTGTGCGCA	GAAGCGATGA	TACTCTGGAT	GAGGAAGACT	CCTTTGTGAT	GAAGGCCATC	1380
	ATCCATGCCA	TCAACGATGA	CAATGTCCCA	GGCCTGCAGC	ACCTTCTGGG	CTCATTATCC	1440
	AACATGATG	TTAACCAACC	CAACAAGCAC	GGGACACCTC	CATTACTCAT	TGCTGCTGGC	1500
	TGTGGGAATA	TTCAAATACT	ACAGTTGCTC	ATTAAGAGAG	GCTCGAGAAT	CGATGTCCAG	1560
70	GATAAGGGCG	GGTCCAATGC	CGTCTACTGG	GCTGCTCGGC	ATGGCCACGT	CGATACCTTG	1620
	AAATTTCTCA	GTGAGAACAA	ATGCCCTTTG	GATGTGAAAG	ACAAGTCTGG	AGAGATGGCC	1680
	CTCCAAATGG	CAGCTCGCTA	TGGCCATGCT	GACGTGGCTC	AAGTTACTTG	TGCAGCTTCG	1740
	GCTCAAATCC	CAATATCCAG	GACAAAGGAA	GAAGAAACCC	CCCTGCACCTG	TGCTGCTTGG	1800
	CACGGCTATT	ACTCTGTGGC	CAAGGCCCTT	TGTGAAGCCG	GCTGTAACTG	GAACATCAAG	1860
75	AACCGAGAAG	GAGAGAGGCC	CCTCCTGACA	GCCTCTGCCA	GGGGCTACCA	CGACATCGTG	1920
	GAGTGTCTGG	CCGAACTAGG	AGCCGACCTT	AATGCTTGCG	ACAAGGACGG	ACACATTGCC	1980
	CTTACTCTGG	CTGTAAAGACG	GTGTCAAGTG	GAGGTAATCA	AGACTCTCCT	CAGCCAAAGG	2040
	TGTTTGTGCG	ATTATCAAGA	CAGGCACGGC	AATACTCCCC	TCCATGTGGC	ATGTAAAGAT	2100
	GGCAACATGC	CTATCGTGGT	GGCCCTCTGT	GAAGCAAACT	GCAATTTGGA	CATCTCCAAC	2160
80	AAGTATGGGC	GAAAGCCCTCT	GCACCTTGGG	GCCAAACACG	GAATCTTAGA	CGTGGTCCGG	2220
	TATCTCTGTG	TGATGGGAGC	CAGCGTTGAG	GCGCTGACCA	CGGACGGAAA	GACGGCAGAA	2280
	GATCTTGCTA	GATCGGAACA	GCACGAGCAC	GTAGCAGGTC	TCCTTGCAAG	ACTTGGAAAG	2340
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	ATTAAGCTCA	AGCTGTTTGG	CCACTCGGGA	TCCGGGAAAA	CCACCCTTGT	AGAATCTCTC	2460
	AAGTGTGGGC	TGCTGAGGAG	CTTTTTCAGA	AGGCGTCGGC	CCAGACTGTC	TTCCACCAAC	2520

5 TCCAGCAGGT TCCACCTTC ACCCCTGGCT TCTAAGCCCA CAGTCTCAGT GAGCATCAAC 2580
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 10 CACGCTGACA TCATGAATGT TCCTCGACCG GCTGGAGGCG AGTTTGGATA TGACAAAGAC 3060
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 35 TACCCTGAGA GCACAGTGGG CACCCTCATG TCCAACTGA GGGAGCTGGG TCGCCGGGAT 4500
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60 Seq ID NO: C73 DNA Sequence
 Nucleic Acid Accession #: NM_002081.1
 Coding sequence: 222..1898

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 70 GCTGGTGGCT GCTATGTGCG GCGCGAGCGC TGGTGGCTGT CCGCCGCGGG GACCCGGCCA 300
 GCAAGAGCCG GAGCTGCGCG GAGGTCCGCC AGATCTAOGG AGCCAAAGGG TTACGCTGTA 360
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 GGGCCGCGCT GCTCGAGCGC CTCTTCAAGC AGCTGCAACC CCAGCTGCTB CTGCTGATG 780
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 TGGCGTGGC CAGCGACGTC GTCCGGAAG TGGCTCAGGT CCCCCTGGGC CCGGAGTGCT 960
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 CCTGCCCTGA CTATTGCGGA AATGTGTCTA AGGGCTGCTC TGCCAAACCG GCCGACCTGG 1080
 ACGCCGAGTG GAGGAACCTC CTGACTCCA TGGTGCTCAT CACCGACAAG TTCTGGGGTA 1140
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5	CCCTCCAGGA CAACAGGGAC ACGCTCACGG CCAAGGTCAT CCAGGGCTGC GGGAAACCCA 1260
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	GGGAGAGGCC ACCTTCAGGC ACGCTGGAGA AGCTGGTCTC TGAAGCCAAAG GCCCAGCTCC 1380
	GCGACGTCCA GGACTTCTGG ATCAGCCTCC CAGGGACACT GTGCAGTGAG AAGATGGCCC 1440
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	AGGTCAATGG TGACGGCCTG GCCAACCA TCAACAACCC CGAGGTGGAG GTGGACATCA 1560
	CCAAGCCGGA CATGACCATC CGGCAGCAGA TCATGCAGCT GAAGATCATG ACCAACCGGC 1620
	TGCGCAGCGC CTACAACGGC AACGACGTGG ACTTCCAGGA CGCCAGTGAC GACGGCAGCG 1680
10	GCTCGGGCAG CGGTGATGGC TGTCTGGATG ACCTCTGCGG CCGGAAGGTC AGCAGGAAGA 1740
	GCTCCAGCTC CCGGACGCCC TTGACCCATG CCTCCACAGG CCTGTGAGAG CAGGAAGGAC 1800
	AGAAGACTCT GGCTGCGAGC TGCCCCCAGC CCGGACCTT CTCTCTGCCC CTCTCTCTCT 1860
	TCCTGGCCCT TACAGTAGCC AGGCCCCGGT GGCCTGAATC GCCCAAGGC CCCAGGGACA 1920
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15	TGGAGAGGCC TGGGTGGGA CAGGGAGGGC CGGCGCTCT GAGCAGGGGC AGGCGCAGAG 2040
	GTCCAGCCCC CAGGCTGGC CTGCGCTGCC TTTCTGCCTT TTAATTTTGT ATGAGGTCTT 2100
	CAGGTCACTG GGTGACCACT GTGCCCAAAA GCCATGTATT TCAGGGACCT CAGGGGCACC 2160
	TCCGCTGCC TAGCCCTCCC CCCAGCTCCC TGACCCGCGG CAGAAGCAGC CCTTCGAGGC 2220
	CTACAGAGGA GGCCTCAAAG CAACCCGCTG GAGCCACAGC CGAGCCTGTG CCTTCCTCCC 2280
20	CGCCTCTCTC CACTGGGACT CCCAGCAGAG CCACACAGCC AGCCTGGCC CACCCCCAG 2340
	CCTCCAGAGA AGCCCCGAC GGGCTGTCTG GGTGTCCGCC ATCCAGGGTC TGGCAGAGCC 2400
	TCAGATGTA TGCATGATGC CTCCCTCA GCGCAGGCTG CAGAGCCCGG CCCCACTCC 2460
	CTGCGCCCTT GAGGGGCCCC AGCGCTGCA GGGTGACGCC TGAGACAGCA CCACTGCTGA 2520
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25	GGGGCCACTG ACCCACTGCG GCTTCTGCTG GAGGAGGGGA AGCTGGGCCC AAAGGCCAG 2640
	GGAGGAGGCG TGGGTCTGCG CAATGTGGGC TGCCCTCGC ACACAGGGCT CACAGGGCAG 2700
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	CCTGCTCCCA TCCTCACCCA GATCAGGAAC CAGGGCCTCC CTGTTACAGG TGACACAGGT 2820
	CAGGGCTCAG AGTGACCTCT GGTGTGACCC TGCTCAGAGG GATGCTGGTG GCTGGTGAGA 2880
30	CCCCGCACTG CACAGCGGAA TGCTTAGGTC CCTTCCGAC CCAGCCAGCT GCACTGCAGG 2940
	GCACGGGAGC CTGGATAGTT AAGGGCTTTT CCAACATGAC ATCCATTAC TGACACTTCC 3000
	TGCTCTGTT CATGGAGAGC TGTTGCTCC TCCAGATGG CTTGCGAGGC CCGCAGGGCC 3060
	CACCTTGGAC CCTGGTGACC TCCTGTCACT CACTGAGGCC ATCAGGGCCC TGCCCCAGGC 3120
	CTGACCGGGC CTCTCTCCC TCCTGTGCCC CAGCTGCCAG GTGGCCTTGG GGAGGGGTGG 3180
35	TGTGTGTTG GGAAGGGGTC CTGCAGGGGG AGGAGGACTT GGAGGCTCTG GGGCAGCTG 3240
	TCCTGAACCG ACTGACCTCG AGGAGGCCCG TTAGTGCTGC TTTGCTTTC ATCACCGTCC 3300
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40	CAGCACTCCC GCTGCACACA GACGGCCTAG GGGTGGCGCT CAGACCCCA CCTACGCTCA 3540
	TCCTGGAAG GGGCAGCCCT GAGTGGTAC TGGTCAGGGC AGTGGCCAG CTGCTGTGT 3600
	CCTTCTCCA CAAGTTCGCC CCACCGCTCA GTGTACGCGG GTGACGTGTG TTTCTTTGAG 3660
	TCCTGTATG AATAAAGGC TGGAAACCTA AA 3692

45 Seq ID NO: C74 DNA Sequence
Nucleic Acid Accession #: BC030205.1
Coding sequence: 45..878

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	ATAACTCCAT	ATGGCTTGAA	CGAGCAGCCG	GTGTGTACCA	CAGAGAAGCA	CGGTCTGGCA	180
55	AATACAGCT	CAGCTACGCA	GAAGCTAAGG	CGGTGTGTGA	ATTTGAAGGC	GGCCATCTCG	240
	CAACTTACAA	GCAGCTAGAG	GCAGCCAGAA	AAATTTGGATT	TCATGTCCTG	GCTGCTGGAT	300
	GGATGGCTAA	GGGACAGAGT	GGATACCCCA	TTGTGAAGCC	AGGGCCCAAC	TGTGGATTGT	360
	GAAAACTGG	CATTATTGAT	TATGGAATCT	GTCTCAATAG	GAGTGAAGA	TGGGATGCCT	420
	ATTGCTACAA	CCCAACAGCA	AAGGAGTGTG	GTGGCGTCTT	TACAGATCCA	AAGCAAAAT	480
60	TTAAATCTCC	AGGCTTTCCA	AATGAGTAGC	AAGATAACCA	AATCTGCTAC	TGGCACATTA	540
	GACTCAAGTA	TGGTCAGCGT	ATTCACCTGA	GTTTTTTAGA	TTTTGACCTT	GAAGATGACC	600
	CAGGTTGCTT	GGCTGAATTAT	GTTGAARAT	ATGACAGTTA	CGATGATGTC	CATGGCTTGG	660
	TGGGAAGATA	CTGTGGAGAT	GAGCTTCCAG	ATGACATCAT	CAGTACAGGA	AATGTCATGA	720
	CCTTGAAGTT	TCTAAGTGAT	GCTTCAGTGA	CAGCTGGAGG	TTTTCCAAAT	AAATATGTTG	780
65	CAATGGATCC	TGTATCCAAA	TCCAGTCAAG	GAAAAAATAC	AAGTACTACT	TCTACTGGAA	840
	ATAAAAACTT	TTTAGCTGGA	AGATTTAGCC	ACTTATAAAA	AAAAAAGAGG	GATGATCAAA	900
	ACACACAGTG	TTTATGTTGG	AATCTTTTGG	AACTCCTTGG	ATCTCACTGT	TATTATTAAC	960
	ATTTATTTAT	TATTTTCTTA	AATGTGAAAG	CAATACATAA	TTTAGGGAAA	ATTGGAAAAT	1020
	ATAGGAAACT	TTAAACGAGA	AAATGAAACC	TCTCATAATC	CCAGTGCATA	GAAATAACAA	1080
70	CGGTTAAAC	TTTCAATATT	TTTTCTTTCA	GTCATTTTTC	TATTTGTGGT	ATATGTATAT	1140
	ATGTACCTAT	ATGATTTTGC	ATTTGAAATT	TTGGAATCCT	GCTCTATGTA	CAGTTTGTGA	1200
	TTTACTCTTT	TAAATCTTGA	ACTTTATAAA	CATTTTCTGA	AATCATGTAT	TATTTCTACAA	1260
	AAACATGATT	TTAAACAGCT	GTA AAAATATT	CTATGATATG	AATGTTTTAT	GCATTATTTA	1320
	AGCCTGTCTC	TATTTGTGGA	ATTTCCAGCT	ATTTTTCATA	ATATTGTTGC	AATAAATATC	1380
75	CTTGAACACA	AAAAA AAAAA	AAAAA AAAAA	AAAAA AAAAA	AAAAA AAAAA	AAAAA AAAAA	1430

80 Seq ID NO: C75 DNA Sequence
Nucleic Acid Accession #: NM_001982.1
Coding sequence: 199..4227

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	GTGGCTCTTG	CCTCGATGTC	CTAGCCTAGG	GGCCCCCGGG	COGGACTTGG	CTGGGCTCCC	180
	TTCACCTCT	GGGGAGTCAT	GAGGGCGAAC	GACGCTCTGC	AGGTGCTGGG	CTTGCTTTTC	240
	AGCCTGGCCC	GGGGCTCCGA	GGTGGGCAAC	TCTCAGGCAG	TGTGCTCTGG	GACTCTGAAT	300
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	AGGTGTGAGG	TGGTGATGGG	GAACTTTGAG	ATTGTGCTCA	CGGGACACAA	TGCCGACCTC	420
	TCTTCTCTGC	AGTGGATTGG	AGAAGTGACA	GGCTATGTCC	TGCTGGCCAT	GAATGAATTC	480
	TCTACTCTAC	CATTGCCCAA	CCTCCGCGTG	GTGCGAGGGA	CCCAGGTCTA	CGATGGGAAG	540
	TTTGCCATCT	TGCTCATGTT	GAACTATAAC	ACCAACTCCA	GCCACGCTCT	GCGCCAGCTC	600
10	CGCTTGACTC	AGCTCACCGA	GATTCTGTCA	GGGGGTGTTT	ATATTGAGAA	GAACGATAAG	660
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	GTGGTGAAGG	ACAAATGGCAG	AAGCTGTCCC	CCCTGTCTAG	AGGTTTGCAA	GGGGCGATGC	780
	TGCGGTCTCT	GATCAGAAGA	CTGCCAGACA	TTGACCAAGA	CCATCTGTGC	TCCTCAGTGT	840
	AATGCTCACT	GCTTTGGGCC	CAACCCCAAC	CAGTGCTGCC	ATGATGAGTG	TGCCCGGGGC	900
15	TGCTCAGGCC	CTCAGGACAC	AGACTGCTTT	GCCTGCGGGC	ACTTCAATGA	CAGTGSAGCC	960
	TGTGTACCTC	GCTGTCCACA	GCCTCTTGTC	TACAAACAGC	TAACCTTCCA	GCTGGAACCC	1020
	AATCCCACTC	CCAAATATCA	GTATGGAGGA	GTTTGTGTAG	CCAGCTGTCC	CCATAACTTT	1080
	GTGGTGGATC	AAACATCTCT	TGTCAGGGCC	TGCTCTCTCT	ACAAATGGA	AGTAGATAAA	1140
	AATGGGCTCA	AGATGTGTGA	GCCTTGTGGG	GGACTATGTC	CCAAAGCCTG	TGAGGGAACA	1200
20	GGCTCTGGGA	GCCTCTTCCA	GACTGTGGAC	TGAGCAACA	TTGATGGATT	TGTGAACCTC	1260
	ACCAAGATCT	TGGGCAACCT	GGACTTTCTG	ATCACCGGCC	TCAATGGAGA	CCCTGGCAC	1320
	AAGATCCCTC	CCCTGGACCC	AGAGAAGCTC	AATGTCTTCC	GGACAGTACG	GGAGATCACA	1380
	GGTTACCTGA	ACATCCAGTC	CTGCCCGCCC	CACATGCACA	ACTTCAGTGT	TTTTTCCAAT	1440
	TTGACAACTA	TTGGAGGCG	AAGCCTCTAC	AACCGGGGCT	TCTCATTGTT	GATCATGAAG	1500
25	AACCTGAATG	TCCAGATCTC	GGGCTTCCGA	TCCCTGAAGG	AAATTAGTGC	TGGGCGTATC	1560
	TATATAAGTG	CCAATAGGCA	GCTCTGCTAC	CACCACTCTT	TGAACCTGAC	CAAGGTGCTT	1620
	CGGGGGCTTA	CGGAAGAGCG	ACTAGACATC	AAGCATAATC	GGCCGCGCAG	AGACTGCGTG	1680
	GCAGAGGGCA	AGTGTGTGTA	CCCCTGTGTC	TCTCTGTGGG	GATGCTGGGG	CCAGGCCCTC	1740
	GGTCAGTGCT	TGCTCTGTGC	AAATTATAGC	CGAGGAGGTG	TCTGTGTGAC	CCACTGCAAC	1800
30	TTTCTGAATG	GGGAGCCTCG	AGAATTGTCC	CATGAGGCGG	AATGCTTCTC	CTGCCACCCG	1860
	GAATGCCAAC	CCATGGGGGG	CACCTGCCCA	TGCAATGGCT	CGGGCTCTGA	TACTTGTGCT	1920
	CAATGTGCCC	ATTTTGCGAG	TGGGCCCCAC	TGTTGTGAGC	GCTGCCCCCA	TGGAGTCTTA	1980
	GGTGCCAAAG	GCCCAATCTA	CAAGTACCCA	GATGTTTACA	ATGAATGTCT	GCCCTGCCAT	2040
	GAGAACTGCA	CCCAAGGGTG	TAAAGGACCA	GAGCTTCAAG	ACTGTTTAGG	ACAAACACTG	2100
35	GTGCTGATCG	GCAAAACCCA	TCTGACAAAT	GCTTTGACAG	TGATAGCAGG	ATTGTAGTGT	2160
	ATTTTCTATG	TGCTGGGGGG	CACCTTTCTC	TACTGGCGTG	GGCGCGCGAT	TCAGAAATAA	2220
	AGGGCTATGA	GGCGATACCT	GGAAACGGGT	GAGAGCATAG	AGCCTCTGGA	CCCACTGAGG	2280
	AAGGCTAACA	AGTCTTGGCC	CAGAATCTTC	AAAGAGACAG	AGCTAAGGAA	GCTTAAAGTG	2340
	CTTGGCTCGG	GTGCTTTTGG	AACCTGTGAC	AAAGGAGTGT	GGATCCCTGA	GGGTGAATCA	2400
40	ATCAGATTCG	GCAAAACCCA	TCTGACAAAT	GAGGACAAAG	GTGGACGGCA	GAGTTTTCAT	2460
	GCTGTGACAG	ATCATATGCT	GGCCATTGGC	AGCCTGGACC	ATGCCACAT	TGTAAGGCTG	2520
	CTGGGACTAT	GCGCCGGTTC	ATCTGTGACG	CTTGTCACTC	AATATTGTGC	TCTGGGTTCT	2580
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45	CTGGCTGGCC	GAAACCTGCT	ACTCAAGTCA	CCCAGTCAGG	TTCAGGTGGC	AGATTTTGGT	2760
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	ATTAAGTGGA	TGCGCCCTGA	GAGTATCCAC	TTTGGGAAAT	ACACACACCA	GAGTATGTC	2880
	TGGAGCTATG	GTGTGACAGT	TTGGGAGTTG	ATGACCTTCG	GGGCGAGGCC	CTATGCAGGG	2940
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50	ATCTGCACAA	TGATGTCTTA	CATGGTGATG	GTCAAGTGT	GGATGATTGA	TGAGAACATT	3060
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	TATCTGGTCA	TAAAGAGAGA	GAGTGGGCTC	GGAATAGCCC	CTGGGCGAGA	GCCCCATGGT	3180
	CTGACAAACA	AGAAGCTAGA	GGAAGTAGAG	CTGGAGCCAG	AACTAGACCT	AGACCTAGAC	3240
	TTGGAGGACG	AGGAGGACAA	CCTGGCAACC	ACCACACTGG	GCTCCGCCCT	CAGCCTACCA	3300
55	GTGGGACAC	GATATCGGCC	ACGTGGGAGC	CAGAGCCTTT	TAAATCCATC	ATCTGGATAC	3360
	ATGCCCATGA	ACCAAGGTAT	TCTTGGGGGG	TCTTGGCAGG	AGTCTGCAAT	TCTTGGGAGC	3420
	AGTGAAGCGT	GCCCCGCTCC	AGTCTCTCTA	CACCCAAATG	CACGGGGATG	CCTGGCATCA	3480
	GAGTCATCAG	AGGGGCTATG	AACAGGCTCT	GAGGCTGAGC	TCCAGGAGAA	AGTGTCAATG	3540
	TGTAGAGGCC	GGAGCAGGAG	CGGGAGCCCA	CGGCCACGGG	GAGATAGCGC	CTACCATTC	3600
60	CAGCGCCACA	GTCTGCTGAC	TCTGTGTACC	CCACTCTCCC	CACCGGGTTC	AGAGGAAGAG	3660
	GATGTCAACG	GTTATGTCTA	GCCAGATACA	CACCTCAAAG	GTACTCCCTC	CTCCCGGGAA	3720
	GGCACCTCTT	CTTCAGTGGG	TCTCAGTTCT	GTCTGGGTA	CTGAAGAAGA	AGATGAAGAT	3780
	GAGGAGTATG	AATACATGAA	CCGAGGAGGA	AGGCACAGTC	CACCTCATCC	CCCTAGGCCA	3840
	AGTTCCCTTG	AGGAGCTGGG	TTATGAGTAC	ATGGATGTGG	GGTCAGACCT	CAGTGCCTCT	3900
65	CTGGGCGACA	CACAGAGTTG	CCCACTCCAC	CCTGTACCCA	TGATGCCAC	TGCAGGCACA	3960
	ACTCCAGATG	AAGACTATGA	ATATATGAAT	CGGCAACGAG	ATGGAGGTGG	TCTTGGGGGT	4020
	GATTATGACG	CCATGGGGGC	CTGCCAGACA	TCTGAGCAAG	GGTATGAAGA	GATGAGAGCT	4080
	TTTCAGGGGC	CTGGACATCA	GGCCCCCAT	GTCCATTATG	CCGCGCTAAA	AACTCTACGT	4140
	AGCTTAGAGG	CTACAGACTC	TGCCCTTGAT	AACCTTGATT	ACTGGCATAG	CAGGCTTTTC	4200
70	CCCAAGGCTA	ATGCCAGAG	AACGTAACTC	CTGCTCCCTG	TGGCACTCAG	GGAGCATTTA	4260
	ATGGCAGCTA	GTGCCCTTAG	AGGGTACCGT	CTTCTCCCTA	TTCCCTCTCT	CTCCAGGTTC	4320
	CCAGCCCTCT	TTCGCCAGTC	CCAGACAATT	CCATTCAATC	TTTGGAGGCT	TTTAAACATT	4380
	TTGACACAAA	ATTCTTATGG	TATGTAGCCA	GCTGTGCACT	TTCTTCTCTT	TCCCAACCCC	4440
	AGGAAAGGTT	TTCTTATTTT	TGTGTGCTTT	CCCACTCCCA	TTCTCTAGCT	TCTTACAGG	4500
75	CACCTCTGGA	GATATGAAGG	ATTACTCTCC	ATATCCCTTC	CTCTCAGGCT	CTTGACTACT	4560
	TGGAACCTAG	CTCTTATGTG	TGCCCTTGTG	TCCCATCAGA	CTGTCAAGAA	GAGGAAAGGG	4620
	AGGAAACCTA	GCAAGAGGAA	GTGTAATTTT	GGTTTATGAC	TCTTAAACCC	CTAGAAGGAC	4680
	AGAAGCTTAA	AATCTGTGAA	GAAAGAGGTT	AGGAGTAGAT	ATTGATTACT	ATCATAATTC	4740
	AGCACTTAAC	TATGAGCCAG	GCATCATACT	AACTTCAACC	TACATTATCT	CACCTAGTCC	4800
80	TTTATCATCC	TATAAACAAT	TCTGTGACAT	ACATATTATC	TCTATTTTACA	CAAAGGGGAG	4860
	TGCGGCATGG	TGGCTCATGC	CTGTAATCTC	AGCACTTTGG	GAGGCTGAGG	CAGAAGGATT	4920
	ACCTGAGGCA	AGGAGTTTGA	GACCAAGCTTA	GCCAAACATG	TAAGACCCCC	ATCTC	4975

80

1	11	21	31	41	51	
GCTTGCCCGT	CGTGCTAG	CTCGCTCGGT	GCGGCTGCTC	CGCTCCATG	GCGCTCTCG	60
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CCGCCAAGTC	CGCCTACCA	CTGGTGTGTC	AGCACAGCAG	CGCTCGGGG	CGCCAGCACT	180
CGCCCAACGT	GTGTGCTGTG	CAGAAGGTTA	TGTGGCACTAA	TAGGAAGTAC	TTCACCAAC	240

5	GCAAGCAGTG GTACCAAGG AAAATCTGTG GCAAATCAAC AGTCATCAGC TACGAGTGTCT 300
	GTCTGGATA TGAAGAGGTC CCTGGGGAGA AGGGCTGTCC AGCAGCCCTA CCATCTCTCAA 360
	ACCTTTACGA GACCTCTGGG GTCGTTGGAT CCACCAACAC TCAGCTGTAC ACGGACCGCA 420
	CGGAGAACTG GAGGCTCTGAG ATGGAGGGGC CGGGCAGCTT CACCATCTTC GCCCTAGCA 480
	ACGAGGCTGT GGCCTCTTGT CCAGCTGAAG TGCTGACTC CTGGTCAAGC AATGTCAACA 540
	TTGAGCTGCT CAATGCCCTC CGCTACCATA TGGTGGGAG GCGAGTCTTG ACTGATGAGC 600
	TGAACACGG CATGACCCTC ACCTCTATGT ACCAGAAATC CAACATCCAG ATCCACCACT 660
	ATCCTAATGG GATTGTAACT GTGAACTGTG CCCGGCTCCT GAAAGCCGAC CACCATGCAA 720
10	CCAAAGGGGT GGTGACCTC ATCGATAAGG TCATCTCCAC CATCAACCAAC AACATCCAGC 780
	AGATCATTGA GATCGAGGAC ACCTTTGAGA CCTTCGGGC TGCTGTGGCT GCATCAGGGC 840
	TCAACACGAT GCTTGAAGGT AACGGCCAGT ACACGCTTTT GGGCCCGACC AATGAGGCCT 900
	TGAGAGAGAT CCTAGTGAG ACTTTGAACC GTATCTGGG CGACCCAGAA GCCCTGAGAG 960
	ACCTGCTGAA CAACACATC TTGAAGTCAG CTATGTGTGC TGAAGCCATC GTTGGGGGGC 1020
15	TGTCTGTAGA GACCTCTGAG GGCACGACAC TGGAGGTGGG CTGCAGCGGG GACATGCTCA 1080
	CTATCAACGG GAAGCGGATC ATCTCCAATA AAGACATCCT AGCCACCAAC GGGGTGATCC 1140
	ACTACATTGA TGAGCTACTC ATCCCAGACT CAGCCAAGAC ACTATTGAA TTGGCTGCAG 1200
	AGTCTGATGT GTCCACAGCC ATTGACCTTT TCAGACAAGC CGGCCTCGGC AATCATCTCT 1260
	TGGAAGTGT CCTGTGTACC CTCTGGCTC CCTGGAATTC TGTATTCAAA GATGGAAACC 1320
20	CTCCAAATGA TGCCCATACA AGGAATTTGC TCGGAACCA CATAATTAAA GACCAGCTGG 1380
	CCTCTAAGTA TCTGTACCAT GGACAGACCC TGGAACTCT GGGCGGCAAA AAATGAGAG 1440
	TTTTTGTITA TCGTAATAGC CTCTGCATTG AGAACAGCTG CATCGCGGCC CACGACAAGA 1500
	GGGGGAGGTA CGGGACCTGT TTCACGATGG ACCGGGTGCT GACCCCCCA ATGGGGAGTG 1560
	TCATGAGTGT CCTGAAGGGA GACAATCGCT TTAGCATGCT GTGAGCTGCC ATCCAGTCTG 1620
25	CAGGACTGAC GGAGACCTC AACCGGAAG GAGTCTACAC AGTCTTGTCT CCCACAAATG 1680
	AAGCCTTCCG AGCCTTGCCA CCAAGAGAAC GGAGCAGACT CTGGGAGAT GCCAAGGAAC 1740
	TTGCCACATC CTGAAATAC CACATTGGTG ATGAAATCCT GGTTAGCGGA GGCATCGGGG 1800
	CCCTGGTGGC GCTAAAGTCT CTCCAAGGTG ACAAGCTGGA AGTCAGCTTG AAAAACAATG 1860
	TGGTGAGTGT TTTGAATGTT CCGTGTGCG AGCCTGACAT CATGGCCACA AATGGCGTGG 1920
30	TCCATGTCT CACCAATGTT CTGCAGCTC CAGCCAAAG ACCTCAGGAA AGAGGGGATG 1980
	AACCTGCAGA CTCTGCGCTT GAGATCTTCA AACAGCATC AGCGTTTTC AGGGCTTCCC 2040
	AGAGGTCTGT GCGACTAGCC CCTGTCTATC AAAAGTTATT AGAGAGGATG AAGCATTAGC 2100
	TTGAAGCACT ACAGGAGGAA TGCAACACGG CAGCTCTCCG CCAATTTCTC TCAGATTTC 2160
	ACAGAGACTG TTTGAATGTT TTCAAAACCA AGTATCACAC TTTAATGTAC ATGGGCGCA 2220
35	CCATAATGAG ATGTGAGCCT TGTGCATGTG GGGGAGGAG GAGAGAGATG TACTTTTAA 2280
	ATCATGTTCC CCTTAAACAT GGCTGTTAAC CCACTGCATG CAGAACTTG GATGCTACTG 2340
	CCTGACATTC ACTTCCAGAG AGGACCTATC CCAATGTGG AATTGACTGC CTATGCCAAG 2400
	TCCCTGGAAA AGGAGCTTCA GTATTGTGGG GCTCATAAAA CATGAATCAA GCAATCCAGC 2460
	TCATGGGAA GTCTGGGAC AGTTTTTGT AAGCCCTTGC ACAGCTGGAG AAATGGCATC 2520
40	ATTATAAGCT ATGAGTTGAA ATGTTCTGTC AAATGTGCT CACATCTACA CGTGCTTGG 2580
	AGGCTTTTAT GGGGCCCTGT CCAGGTAGAA AAGAAATGGT ATGTAGAGCT TAGATTTC 2640
	TATTGTGACA GAGCCATGGT GTGTTGTAA TAATAAAACC AAAGAAACAT A 2691

45 Seq ID NO: C79 DNA Sequence
Nucleic Acid Accession #: NM_006536.2
Coding sequence: 109..2940

50	1 11 21 31 41 51	ACCTAAACC TTGCAAGTTC AGGAAGAAC CATCTGCATC CATATTGAAA ACCTGACACA 60
		ATGTATGCAG CAGGCTCAGT GTGAGTGAAC TGGAGGCTTC TCTACAACAT GACCCAAAGG 120
		AGCATTGCAG GTCTTATTTG CAACCTGAAG TTTGTGACTC TCCTGGTTGC CTTAAGTTCA 180
		GAACCTCCAT TCCTGGGAGC TGGAGTACAG CTTCAAGACA ATGGGTATAA TGGATTGCTC 240
55		ATTGCAATTA ATCCTCAGGT ACCTGAGAAT CAGAACCTCA TCTCAACAT TAAGGAAATG 300
		ATAAAGATT TAATACCTGC CACATGAAA GCTAATAATA ACAGCAAAAT AAAACAAGAA 360
		TCATATGAAA AGGCAAATGT CATAGTACT GACTGTATG GGGCAGATGG AGATGATCCA 420
		TACACCTCAT AATACAGAGG GTGTGGAATA GAGGGAATAT ACATTCAITT CACACCTAAT 480
60		TTCTACTGTA ATGATAACTT AACAGCTGGC TACGATCAC GAGGCCAGT GTTTGTCCAT 540
		GAATGGGCCC ACCTCGTGTG GGGTGTGTTG GATGAGTATA ACAATGACAA ACCTTTCTAC 600
		ATAAATGGGC AAAATCAAA TAAAGTGACA AGGTGTTTAT CTGACATCAC AGGCATTTTT 660
		GTGTGTGAAA AAGGTCTTGT CCCCCAAGAA AACTGTATTA TTAGTAAGCT TTTTAAAGAA 720
		GGATGCACCT TTATCTACAA TAGCACCCAA AATGCAACTG CATCAATAAT GTTCATGCAA 780
65		AGTTTATCTT CTGTGTTTGA ATTTTGTAA TCAAGTACCC ACAACCAAGA AGCAACCAAC 840
		CTACAGAAAC AGATGTGCAG CCTCAGAAAT GCATGGGATG TAATCACAGA CTCTGCTGAC 900
		TTTCACCACA GCTTTCCTCAT GAATGGGACT GAGCTTCCAC CTCTCTCCAC ATTCTCGCTT 960
		GTACAGGCTG GTGACAAAGT GGTCTGTGTTA GTGCTGGATG TGTCCAGCAA GATGGCAGAG 1020
		GCTGACAGAC TCCITCAACT ACAACAAGCC GCAGAAATTT ATTGTATGCA GATTGTTGAA 1080
70		ATTTCATCTT TCGTGGGCAT TGCCAGTTTC GACAGCAAA GAGAGATCAG AGCCAGCTA 1140
		CACCAAAATTA ACAGCAATGA TGATCGAAAG TTGCTGGTTT CATATCTGCC CACCAGCTA 1200
		TCAGCTAAAA CAGACATCAG CATTGTGTTA GGGCTTAAGA AAGGATTGGA GGTGGTTGAA 1260
		AACTGTAATG GAAAAGCTTA TGGCTCTGTG ATGATATTAG TGACCAGCGG AGATGATAAG 1320
		CTTCTTGCCA ATTGCTTACC CACTGTGCTC AGCAGTGGTT CAACAATTCA CTCCATTGCC 1380
75		CTGGGTTTAT CTGCAGCCCC AAATCTGGAG GAATTATCAC GTCTTACAGG AGGTTTAAAG 1440
		TTCTTTGTTT CAGATATATC AAATCTCAAT AGCATGATTG ATGCTTTCAG TAGAATTTC 1500
		TCTGGAACCT GAGACATTTT CAGCAACAT ATTCAAGCTT AAAGTACAGG TGAATATGTC 1560
		AACTCTCACC ATCAATTGAA AAACACAGTG ACTGTGGATA ATACTGTGGG CAACGACACT 1620
80		ATGTTTCTAG TTACGTGSCA GGCCAGTGGT CCTCTGAGA TTATATTATT TGATCCTGAT 1680
		GGAGGAAAT ACTACACAAA TAATTTTATC ACCAATCTAA CTTTTCGAGC AGCTAGTCTT 1740
		TGGATTCCAG GAACAGCTAA GCCTGGGCAC TGGACTTACA CCTGAACAA TACCATCAT 1800
		TCTCTGCAAG CCTGAAAAGT GACAGTGACC TCTCGGCTCT CCAACTCAGC TGTGCCCAAT 1860
		GCCACTGTGG AAGCCTTTGT GGAAGAGAG AGCCTCCATT TTCTCTATCC TGTGATGATT 1920
		TATGCCAATG TGAACAGGG ATTTTATCCC ATCTTAATG CCACTGTGAC TGCCACAGTT 1980
		GAGCCAGAGA CTGGAGATCC TGTTACGCTG AGACTCCTTG ATGATGAGAG AGGTGCTGAT 2040

GTTATAAAAA ATGATGGAAT TTACTCGAGG TATTTTCTCT CTTTGTCTGC AAATGGTAGA 2160
 TATAGCTTGA AAGTGCATGT CAATCACTCT CCCAGCATAA GCACCCACGC CCACTCTATT 2220
 CCAGGGAGTC ATGCTATGTA TGTACCAGGT TACACAGCAA ACGGTAATAT TCAGATGAAT 2280
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 AGCTCAGGAG GCTCCTTTTC AGTGCTGGGA GTTCCAGCTG GCCCCACCC TGATGTGTTT 2400
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 GCAATACGAG CAATGGATAG GAACCTCTTA CAGTCTGCTG TATCTAACAT TGCCAGGCG 2760
 CCTCTGTTTA TTCCCCCAA TTTGATCCT GTACCTGCCA GAGATTATCT TATATTGAAA 2820
 GGAGTTTTAA CAGCAATGGG TTTGATAGGA ATCATTGCTT TTATTATAGT TGTGACACAT 2880
 CATACTTTAA GCAGGAAAAA GAGAGCAGAC AAGAAAGAGA ATGGAACAAA ATTATTATAA 2940
 ATAATATATC AAAGTGTCTT CCTTCTAGA TATAAGACCC ATGGCCTTCG ACTACAAAAA 3000
 CATACTAACA AAGTCAAAAT AACATCAAAA CTGTATTAAA ATGCATTGAG TTTTGTACA 3060
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 CCTTACACTT TGGCTATGAA CAAATAATAA AAATTATTCT TTAAAGTAAT GTCTTTAAAG 3180
 GCAAGGGGAA GGGTAAAGTC GGACCAAGT CAAGGAAAGT TTGTTTATT GAGGTGGA 3240
 AATAGCCCCA AGCAGAGAAA AGGAGGGTAG GTCTGCATTA TAACGTCTG TGTGAAGCAA 3300
 TCATTAGTTT ACTTTGATTA ATTTTCTTT TCTCCTTATC TGTGAGTAC AGGTTGCTTG 3360
 TTTACATGAA GATCATGCTA TATTTTATAT ATGTAGCCCC TAATGCAAG CTCTTACCTT 3420
 CTGTCTATT TGTATATAT ATTTACAGAT ACATCTCCCT GCTAATGCTC AGAGATCTTT 3480
 TTTCACTGTA AGAGGTAACC TTTAACAATA TGGGTATTAC CTTGTCTCT TCATACCGGT 3540
 TTTATGACAA AGGTCTATTG AATTTATTG TGTGTAAGTT TCTACTCCCA TCAAAGCAGC 3600
 TTTCTAAGTT TATTGCCCTG GGTATTATG GAATGATAGT TATAGCCCN TATAATGCCT 3660
 TACCTAGGAA A 3671

Seq ID NO: C80 DNA Sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..1413

1 11 21 31 41 51
 35 ATGAAGTTTC TTCTAATACT GCTCCTGCAG GCCACTGCTT CTGGAGCTCT TCCCCTGAAC 60
 AGCTCTACAA GCCTGGAAAA AAATAATGTG CTATTTGGTG AAAGATACTT AGAAAAATTT 120
 TATGGCCTTG AGATAAACAA ACTTCCAGTG ACAAATATGA AATATAGTGG AAACCTAATG 180
 AAGGAAAAAA TCCAAGAAAT GCAGCACTTC TTGGGTCTGA AAGTGACCGG GCAACTGGAC 240
 40 ACATCTACCC TGGAGATGAT GCACGCACCT CGATGTGAG TCCCGATGT CCATCATTTC 300
 AGGGAATGTC CAGGGGGGCC CGTATGGAGG AAACATTATA TCACCTACAG AATCAATAAT 360
 TACACACCTG ACATGAACCG TGAGGATGTT GACTACGCAA TCCGGAAGC TTTCCAAGTA 420
 TGGAGTAATG TTACCCCTTT GAAATTCAGC AAGATTAAAC CAGGCATGGC TGACATTTTG 480
 GTGGTTTTTG CCCGTGGAGC TCATGGAGAC TTCCATGCTT TTGATGGCAA AGGTGGAATC 540
 45 CTAGCCCATG CTTTGGACC TGGATCTGGC ATTGGAGGGG ATGCACATTT CGATGAGGAC 600
 GAATTCCTGA CTACACATTC AGGAGGCACA AACTTGTTC TCACCTGCTG TCACGAGATT 660
 GGCCATTCTT TAGGTCTTGG CCATTCTAGT GATCCAAAGG CGTAATGTT CCCCACTTAC 720
 AAATATGTTG ACATCAACAC ATTTCCGCTC TCTGCTGATG ACATACGTGG CATTCACTCC 780
 CTGTATGGAG ACCCAAGAA GAACCAACGC TTGCCAAATC CTGCAATTC AGAACCCAGT 840
 50 CTCTGTGACC CCAATTTGAG TTTTGATGCT GTCACTACCG TGGGAAATTA GATCTTTTTT 900
 TTCAAAGACA GGTTCCTCTG GCTGAAGGTT TCTGAGAGAC CAAAGACCAG TGTAAATTTA 960
 ATTTCTTCCT TATGGCCAAC CTGCCCATCT GGCATTGAAG CTGCTTATGA AATTGAAGCC 1020
 AGAAATCAAG TTTTCTTTT TAAAGATGAC AAATACTGGT TAATTAGCAA TTTAAGACCA 1080
 GAGCCAAATT ATCCCAAGAG CATACATTCT TTTGGTTTTT CTAACCTTGT GAAAAAAT 1140
 55 GATGCAGCTG TTTTAAACCC AGGTTTTTAT AGGACCTACT TCTTTGTAGA TAACCAATAT 1200
 TGGAGGTATG ATGAAAGGAG ACAGATGATG GACCTGGTT ATCCCAAACT GATTACCAAG 1260
 AACTTCCAAG GAATCGGGCC TAAATTTGAT GCAGTCTTCT ACTCTAAAAA CAAATACTAC 1320
 TATTTCTTCC AAGGATCTAA CCAATTTGAA TATGACTTCC TACTCCAACG TATCACCAAA 1380
 ACACGAAAA GCAATAGCTG GTTTGGTTGT TGA 1413

Seq ID NO: C81 DNA Sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..1413

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 65 ATGAAGTTTC TTCTAATACT GCTCCTGCAG GCCACTGCTT CTGGAGCTCT TCCCCTGAAC 60
 AGCTCTACAA GCCTGGAAAA AAATAATGTG CTATTTGGTG AAAGATACTT AGAAAAATTT 120
 TATGGCCTTG AGATAAACAA ACTTCCAGTG ACAAATATGA AATATAGTGG AAACCTAATG 180
 70 AAGGAAAAAA TCCAAGAAAT GCAGCACTTC TTGGGTCTGA AAGTGACCGG GCAACTGGAC 240
 ACATCTACCC TGGAGATGAT GCACGCACCT CGATGTGAG TCCCGATGT CCATCATTTC 300
 AGGGAATGTC CAGGGGGGCC CGTATGGAGG AAACATTATA TCACCTACAG AATCAATAAT 360
 TACACACCTG ACATGAACCG TGAGGATGTT GACTACGCAA TCCGGAAGC TTTCCAAGTA 420
 TGGAGTAATG TTACCCCTTT GAAATTCAGC AAGATTAAAC CAGGCATGGC TGACATTTTG 480
 75 GTGGTTTTTG CCCGTGGAGC TCATGGAGAC TTCCATGCTT TTGATGGCAA AGGTGGAATC 540
 CTAGCCCATG CTTTGGACC TGGATCTGGC ATTGGAGGGG ATGCACATTT CGATGAGGAC 600
 GAATTCCTGA CTACACATTC AGGAGGCACA AACTTGTTC TCACCTGCTG TCACGCCATT 660
 GGCCATTCTT TAGGTCTTGG CCATTCTAGT GATCCAAAGG CGTAATGTT CCCCACTTAC 720
 AAATATGTTG ACATCAACAC ATTTCCGCTC TCTGCTGATG ACATACGTGG CATTCACTCC 780
 80 CTGTATGGAG ACCCAAGAA GAACCAACGC TTGCCAAATC CTGCAATTC AGAACCCAGT 840
 CTCTGTGACC CCAATTTGAG TTTTGATGCT GTCACTACCG TGGGAAATTA GATCTTTTTT 900
 TTCAAAGACA GGTTCCTCTG GCTGAAGGTT TCTGAGAGAC CAAAGACCAG TGTAAATTTA 960
 ATTTCTTCCT TATGGCCAAC CTGCCCATCT GGCATTGAAG CTGCTTATGA AATTGAAGCC 1020
 AGAAATCAAG TTTTCTTTT TAAAGATGAC AAATACTGGT TAATTAGCAA TTTAAGACCA 1080
 GAGCCAAAT ATCCCAAGAG CATACATTCT TTTGGTTTTT CTAACCTTGT GAAAAAAT 1140

5
 10
 15
 20
 25
 30

GATGCGAGCTG TTTTAAACCC ACGTTTTTAT AGGACCTACT TCTTTGTAGA TAACCACTAT 1200
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 AACTTCCAAG GAATCGGGCC TAAATTTGAT GCAGTCTTCT ACTCTAAAAA CAAATACTAC 1320
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Seq ID NO: C82 DNA Sequence
 Nucleic Acid Accession #: NM_006952.1
 Coding sequence: 11..793

1 11 21 31 41 51
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 ATCTGACCAA CACAGCCTCT ACCCACTGCT TGAAGCCACC GACAACGATG ACATCTATGG 180
 GGCTGCGCTG ATCGGCATAT TTGTGGGCAT CTGCTCTTTC TGCTGTCTG TTCTAGGCAT 240
 TGTAGGCATC ATGAAGTCCA GCAGGAAAAA TCTCTGGCG TATTTCTATC TGATGTTTAT 300
 AGTATATGCC TTTGAAGTGG CATCTGTGAT CACAGCAGCA ACACAACGAG ACTTTTTCAC 360
 ACCCAACCTC TTCCTGAAGC AGATGCTAGA GAGGTACCAA AACAAACGCC CTCCAACAA 420
 TGATGACCAG TGGAAAAACA ATGGAGTCCAC CAAAACCTGG GACAGGCTCA TGCTCCAGGA 480
 CAATTGCTGT GCGGTAAATG GTCCATCAGA CTGGCAAAAA TACACATCTG CCTTCCGGAC 540
 TGAGAAATAT GATGCTGACT ATCCCTGGCC TCGTCAATGC TGTGTTATGA ACAATCTTAA 600
 AGAACCTTCT AACCTGGAGG CTTGTAAACT AGGCGTGCCT GGTTTTATC ACAATCAGGG 660
 CTGCTATGAA CTGATCTCTG GTCCAATGAA CCGACACGCC TGGGGGGTGG CCTGGTTTGG 720
 ATTTGCCATT CTCTGCTGGA CTTTGTGGGT TCTCTGGGT ACCATGTCTT ACTGGAGCAG 780
 AATTGAATAT TAAGAA 796

Seq ID NO: C83 DNA Sequence
 Nucleic Acid Accession #: NM_001793.2
 Coding sequence: 71..2560

1 11 21 31 41 51
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 CTCTGACGCC ATGGGGCTCC CTGCTGGACC TCTGCGTCT CTCTCCCTTC TCCAGGTTTG 120
 CTGGCTGCAG TCGCGCGCCT COGAGCCGTG CCGGCGGTTC TTCAGGAGG CTGAAGTGAC 180
 CTTGGAGGCG GGAGGCGCGG AGCAGGAGCC CGGCCAGGCG CTGGGGAAG TATTCATGGG 240
 CTGCCCTGGG CAAGAGCCAG CTCTGTTAG CACTGATAAT GATGACTTCA CTGTGCGGAA 300
 TGGCGAGACA GTCCAGGAAA GAAGGTCACT GAAGGAAAGG AATCCATGTA AGATCTTCCC 360
 ATCCAAACGT ATCTTACGAA GACACAAGAG AGATTGGGTG GTTGCTCCAA TATCTGTCCC 420
 TGAAAATGGC AAGGTCCCTC TCCCCCAGAG ACTGAATCAG CTCAGTCTTA ATAAAGATAG 480
 AGACACCAAG ATTTTCTACA GCATCACGGG GCGGGGGGCA GACAGCCCCC CTGAGGGTGT 540
 CTTCCTGTGA GAGAAGGAGA CAGGCTGGTT GTTGTGAAT AAGCCACTGG ACCGGGAGGA 600
 GATTGCCAAG TATGAGCTCT TTGGCCACGC TGTGTAGAG AATGGTGCCT CAGTGGAGGA 660
 CCCCATGAAC ATCTCCATCA TCGTGACCGA CCAGAATGAC CACAAGCCCA AGTTTACCCA 720
 GGACACCTTC CGAGGGAGTG TCTTAGAGGG AGTCCCTACCA GGTACTTCTG TGATGCAGGT 780
 GACAGCCACG GATGAGGATG ATGCCATCTA CACCTACAAT GGGGTGGTGT CTTACTCCAT 840
 CCATAGCCAA GTACCAAGG ACCCACACGA CCTCATGTTT ACCATTCAAC GGAGCACAGG 900
 CACCATCAGC GTCATCTCCA GTGGCCTGGA CCGGGAAGAA GTCCCTGAGT ACACACTGAC 960
 CATCCAGGCC ACAGACATGG ATGGGGACGG CTCCACCACC ACGGCAGTGG CAGTAGTGGA 1020
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 GCCTGAGATG GCAGTGGGCC ATGAGGTGCA GAGGCTGACG GTCACTGATC TGAGCAGCCC 1140
 CACTACCA CAAGTGGCGT CCACCTACCT TATCATGGGC GTGACGACG GGGACCATTT 1200
 TACCATCACC ACCCACCTCG AGAGCAACCA GGCATCCTG ACAACAGGA AGGGTTTGGA 1260
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 GCTGAAGCTC CCAACCTCCA CAGCCACCAT AGTGGTCCAC TGGAGGATG TGAATGAGGC 1380
 ACCTGTGTTT GTCCACCTCT CCAAGTCTGT TGAGGTCCAG GAGGGCATCC CCACTGGGGA 1440
 CTTGCTGTGT GTCTACACTG CAGAAGACCC TGACAAGGAG AATCAAAAGA TCAGCTAACG 1500
 CATCTGAGA GACCCAGCAG GGTGGCTAGC CATGGAACCA GACAGTGGGC AGGTCAACGC 1560
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 GGTCTTGGCC ATGGACAATG GAAGCCCTCC CACCACTGGC ACGGGAACCC TTCTGTCTAAC 1680
 ACTGATTGAT GTCAATGACC ATGGCCCATG CCTGAGCCCG GTGACATCA CCACTGTCGA 1740
 CCAAGCCCTC GTGCGCCAGG TGCTGAACAT CACGGACAAG GACCTGTCTC CCCACACCTC 1800
 CCTTTCCAG GCCCAGCTCA CAGATGACTC AGACATCTAC TGGACGGCAG AGGTCAACGA 1860
 GGAAGGTGAC ACAGTGGTCT TGTCCCTGAA GAAGTTCCTG AAGCAGGATA CATATGACGT 1920
 GCACCTTTCT CTGCTGACCC ATGGCAACAA AGAGCAGCTG ACGGTGATCA GGGCCACTGT 1980
 GTGCGACTGC CATGGCCATG TCGAAACCTG CCTTGGACCC TGGAGGGAG GTTTCATCCT 2040
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 GAGAAGAAG CGGAAGATCA AGGAGCCCTC CTAATCTCCA GAAGATGACA CCGGTGACAA 2160
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 GCTCCACCGA GGTCTGGAGG CCAGGCCGGA GTTGGTTCTC CGCAATGACG TGGCACCAAC 2280
 CATCATCCCG ACACCCATGT ACCGTCTCTG GCCAGCCAAC CAGATGAAA TCGGCAACTT 2340
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 GGGACCAAC GTAGGCCAC AGAGCATCTC CAAGGGGTCT CAGTTCCTCC TTAGCTGAG 2640
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 ACGTTAGAGT GGTGTCTTCC TTAGCCTTTC AGGATGGAGG AATGTGGSCA GTTGTGACTT 2760
 AGCACTGAAA ACCTCTCCAC CTGGGCCAGG GTTGCTCTAG AGGCCAAGTT TCCAGAGGCC 2820
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 TACAGTGAC TTCTCTCTG GAATGGAAAC TTCTTAGGCC TCCTGGTGCA ACTTAATTTT 2940
 TTTTTTAAT GCTATCTTCA AAACGTTAGA GAAAGTCTT CAAAGTGCA GCCACAGGCT 3000
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TGGATCTCTG CGTTTTTATA CTGAGTGTGC CTAGGTTGCC CCTTATTTTT TATTTTCCCT 3120
 GTTGCCTTGC TATAGATGAA GGGTAGGAC AATCGTGTAT ATGTACTAGA ACTTTTTTAT 3180
 TAAAGAAACT TTCCAGAA AAAAA 3205

5 Seq ID NO: C84 DNA Sequence
 Nucleic Acid Accession #: NM_005629.1
 Coding sequence: 639..2546

10 1 11 21 31 41 51
 TAGTCGAGC GAGGTGGCGA GTCGCTGAGC CCGCCGCGGC CCGAGAGCG GCTGCAGCCG 60
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 CCGCCGCGGC CACCGCCACC GGAGTCGCGG GCCAGCGCGG CAGCCTCCGC GGGCCCGCGC 180
 CCGGGCGCGG GCGCGCGGCC ACAGGCCCTT GCTCCGCGCG TCGTTTGCAG ACCGCGGCGG 240
 CCGAGTGTGC CCGCGCGCGC TTAGGATGAG TCTCGGGTGC GCGGAGGAGC CGCGCGAGCC 300
 GCGCGCGGCC GAGTCGCGGC CAGGAGCCTC GGGAGCGCGC GCGCGCGCGC CCGCGCGCGC 360
 GCGCGCGGCC GAGCGCGGCC GCGCGCGGCC GGGCGCGCGA CACACATGAG ATTCTTCAGG 420
 CTCACITTC AATGCTTCGT GGAATGCTTC TGAATGCGCC GCGCGCGGCC CGCACCCCGC 480
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 CTTGCGGCGC CTCCCGGGTG CCGCGCGGTC CCGCGCGGTC ACCGCGCGCC CCGCTGAGGC 600
 GCGCGCGGCC CCGCGCGGCC GTGCGCGGCC CCGGGGCGCAT GCGGAAGAAG AGCGCGGAGA 660
 ACGGATCTTA TAGCGTGTCC GCGGACGAGA AGAAGGGGCC CCTCATCGCG CCGGGGCGCG 720
 ACGGGGCCCT GGCAGAGGCC GACGCGGCCG TGGGCGTGGG GACACCGCGC GCGCGCGTGG 780
 CCGTGCGGCC GCGCGAGACC TGGACGCGCC AGATGGACTT CATCATGTGC TGCCTGGGCT 840
 TCAGCGTGGG CTGGGCAAC GTGTGGCGCT TCCCTTACCT GTGCTACAAG AACCGCGGAG 900
 GTGTGTCTCT TATTCCTTAC GTCTGATGCG CCGTGGTTGG AGGAATCCCC ATTTCTTCT 960
 TAGAGATCTC GCTGGGCCAG TTCATGAAGG CCGCGAGCAT CAATGTCTGG AACATCTGTC 1020
 CCTGTCTCAA AGGCTTGGCG TACGCTTCCA TGGTGATCGT CTTTACTGCG AACACTACT 1080
 ACATCATGCT GCTGGCCTGG GGCTTCTATT ACCTGGTCAA GTCTTTTACC ACCACGCTGC 1140
 CTTGGGCCAC ATGTGGCCAC ACCTGGAAAC CTCCCGACTG CGTGGAGATC TTCCGCCATG 1200
 AAGACTGTGC CAATGCGCAG CTGGCCAAAC TCACCTGTGA CCAGCTTGCT GACCGCGGAT 1260
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 ACAACACCTA CGTGTACCGG TGGTGGGTTG AGGCCATGGG CTGGGCTTTC GCCCTGTCTC 2340
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 GAGGGGAGC AGAACCAAGG CAAATATTTC AGCTGGGCTA TACCCCTCTC CCACTCCCTG 3060
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 CCAGTATCAA TTGTGTGAGC TTGGGTGCGA GTGCACGCGT GCGTGAATAC GGAGATATA 3180
 TATAGATCTC TATCTCTTAG CAAAGGTGAA TGCCAGATGT AAATGGCGCC TCTGGGCAAA 3240
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 AAAACATGTC ATTTCC 3917

80 Seq ID NO: C85 DNA Sequence
 Nucleic Acid Accession #: NM_006516.1
 Coding sequence: 180..1658

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 TAGTCGCGG TCCCGAGTG AGCACGCCAG GGAGCAGGAG ACCAAACGAC GGGGGTCGGA 60

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GTGACAGTCG CAGTGGGAGT CCCCGGACCG GAGCACGAGC CTGAGCGGGA GAGCGCCGCT 120
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TGGAGCCCGAG CAGCAAGAAG CTGACGGGTC GCCTCATGCT GGCTGTGGGA GGAGCAGTGC 240
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TCTCTGTGGG CCTTTCTGTT AACCGCTTTG GCCGGCGGAA TTCAATGCTG ATGATGAACC 480
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TGCTGATCCT GGGCCGCTTC ATCATCGGTG TGTACTGCGG CCTGACCACA GGCTTCGTGC 600
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AGAACCAGGC CAAGAGTGTG CTAAGAAGAG TGCGGGGAC AGCTGACGTG ACCCATGACC 900
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CCACAGCAGT GTCTGGGCAT AACGCTGTCT TCTATTACTC CACGAGCATC TTGAGAGAGG 1080
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AACCTGACAG ATGTGACCGG AGCCGGGGCT GGGGCTCCTT TCTCCAGCCA GCAATGATGT 1800
CCAGAAGAT ATTCAAGACT TAACGGCTCC AGGATTTTAA CAAAAGCAAG ACTGTGCTC 1860
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ATATCAGCTT GAGTCTCTG TGCCCAATC CCAGGCTTCA CCTGATATGG TTCCATGCTC 1980
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CTGGACCTAT GTCTAAGGA CACACTAATC GAATATGAA CTACAAAGCT TCTATCCAG 2100
GAGGTGGCTA TGGCCACCCG TTCTGCTGGC CTGGATCTCC CCACTTAGG GGTGAGGCTC 2160
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CCTGAGACCA GTTGGAGACA CTGGAGTGCA GGGAGGAGAG GGAAGGGGCC AGTCTGGGCT 2280
GCCGGGTTCT AGTCTCTTCT GCACGTAGGG CCACACTATT ACCATGAGAA GAGGGCTGT 2340
GGGAGCCTGC AAACCTACTG CTCAAGAAGA CATGGAGACT CCTGCCCTGT TGTGTATAGA 2400
TGCAAGATAT TTATATATAT TTTTGGTGT CAATATTTAA TACAGACACT AAGTTATAGT 2460
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AGGCTTGAAA TGCAATTATT TTGAATGTGA AGGGAA 2856

Seq ID NO: C86 DNA Sequence
Nucleic Acid Accession #: XM_035292.2
Coding sequence: 53..1576

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GCTCGCTGGG CGCGGGCTCC CGGGTGTCCC AGGCCCGGCC GGTGCGCAGA GCATGGCGGG 60
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GGAGAAGATG CTGGCGGCCA AGAGCGCGGA CGGCTCGCG CCGGAGGCG AGGGCGAGGG 180
CGTAGCCCTG CAGCGGAACA TCACGCTGCT CAACGCGGTG GCCATCATCG TGGGGACCAT 240
TATCGGCTCG GGCATCTTCG TGACGCCCAC GGGCGTGTCT AAGGAGGCG GCTCGCGCGG 300
GCTGGCGCTG GTGGTGTGGG CCGCGTGGCG CGTCTTCTCC ATCGTGGCG CGCTCTGCTA 360
CGCGGAGCTC GGCACCACCA TCTCCAAATC GGGCGGCGAC TACGCTTACA TGCTGGAGGT 420
CTACGGCTCG CTGCCCGCTT TCTCAAGCT CTGGATCGAG CTGCTCATCA TCGGCGCTTC 480
ATCGCAGTAC ATCGTGGGCC TGGTCTTGGC CACTACCTG CTCAAGCGCG TCTTCCCAC 540
CTGCCCGGTG CCGGAGGAGG CAGCCAAGCT CGTGGCTGCT CTCTGCTGCT TGCTGCTCAC 600
GGCCGTGAAC TGCTACAGCG TGAAGGCGGC CACCGGCTC CAGGATGCTT TTGCCGCGC 660
CAAGCTCCTG GCCCTGGCCC TGATCATCTT GCTGGGCTTC GTCCAGATCG GAAAGGGTGA 720
TGTGTCCAA CTAGATCCCA ACTTCTCAT TGAAGGCACC AAACCTGATG TGGGGAACAT 780
TGTGCTGCGA TTATACAGCG GCTCTTTGCT CTATGGAGGA TGAATTTACT TGAATTTCTG 840
CACAGAGGAA ATGATCAACC CCTACAGAAA CCTGCCCTG GCCATCATCA TCTCCTGCTC 900
CATCGTGACG CTGGTGTACG TGCTGACCAA CCGGCTCTAC TTCACCAACC TGTCCACGA 960
GCAGATGCTG TCGTCCGAGG CCGTGGCGGT GGAATTCGGG AACTATCACC TGGGCGTCAT 1020
GTCTCGGATC ATCCCGCTCT TCGTGGGCTT GTCTGCTTC GGCTCGCTCA ATGGGTCCCT 1080
GTTCACTCC TCCAGCTCT TCTTGTGGG GTCCCGGGA GGCACCTGC CCTCATCCT 1140
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CAACTGGCTC TGCGTGGGCC TGGCCATCAT CGGCATGATC TGGCTGGGCC ACAGAAAGCC 1320
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CCTCTTCTG ATGCCGTCT CCTTCTGAA GACACCGTG GAGTGTGGA TCGGCTTCA 1440
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CCCCAGGAG ACATAGCCAG GAGGCCAGT GGCTGCCGGA GGAGCATGC 1609

Seq ID NO: C87 DNA Sequence
Nucleic Acid Accession #: NM_005268.1

Coding sequence: 168..989

	1	11	21	31	41	51	
5	TAAAAAGCAA	AAGAATTGCG	GGCCGCGTCG	ACACGGGCTT	CCCCGAAAC	CTTCCCCGCT	60
	TCTGGATATG	AAATTCAGC	TGCTTGCTGA	GTCTTATTGC	CGGCTGCTGG	GAGCCAGGAG	120
	AGCCCTGAGG	AGTAGTCACT	CAGTAGCAGC	TGACGCGTGG	GTCCACCATG	AACTGGAGTA	180
	TCTTTGAGGG	ACTCCTGAGT	GGGTCAACA	AGTACTCCAC	AGCCTTTGGG	CGCATCTGGC	240
10	TGTCCTCTGG	CTTCATCTTC	CGCGTGCTGG	TGTACTTGGT	GACGCGCGAG	CGTGTGTGGA	300
	GTGATGACCA	CAAGGACTTC	GACTGCAATA	CTGCCAGGCC	CGGCTGTGCC	AACTCTGTCT	360
	TTGATGAGTT	TTGCCCTGTG	TCCCATGTGC	GCCTCTGGGC	CCTGCAGCTT	ATCCTGGTGA	420
	CATGCCCCCTC	ACTGCTCGTG	GTCAATGACG	TGGCCTACCG	GGAGGTTTCA	GAGAAGAGGC	480
	ACCGAGAAGC	CCATGGGGAG	AACAGTGGGC	GCCTCTACCT	GAACCCCGGC	AAGAAGCGGG	540
15	GTGGGCTCTG	GTGGACATAT	GTCTGCAGCC	TAGTGTTCAA	GGCGAGCGTG	GACATGCGCT	600
	TTCTCTATGT	GTTCACCTCA	TTCTACCCCA	AAATATATCT	CCCTCTCTGT	GTCAAGTGCC	660
	ACGCAGATCT	ATGTCCCAAT	ATAGTGGACT	GCTTCATCTC	CAAGCCCTCA	GAGAAGAAC	720
	TTTTCACCTT	CTTCATGGTG	GCCACAGCTG	CCATCTGCAT	CCTGCTCAAC	CTCGTGGAGC	780
	TCATCTACCT	GGTAGCAAG	AGATGCCACG	AGTGCCTGGC	AGCAAGSAAA	GCTCAAGCCA	840
20	TGTGCACAGG	TCATCACCCC	CACGGTACCA	CCTCTTCCTG	CAAAACAAGC	GACCTCCTTT	900
	CGGGTGACCT	CATCTTCTCT	GGCTCAGACA	GTCTCTCTCC	TCTCTTACCA	GACCGCCCCC	960
	GAGACCATGT	GAAGAAAACC	ATCTTGTGAG	GGGCTGCGTG	GACTGTGTCT	GCAGGTGGGG	1020
	CCTGGATGGG	GAGGCTCTAG	CATCTCTCAT	AGGTGCAACC	TGAGAGTGGG	GGAGCTAAGC	1080
	CATGAGGTAG	GGGAGGCAAA	GAGAGAGGAT	TCAGACGCTC	TGGAGGCCAG	TTCTAGTCC	1140
25	TCAACTCCAG	CCACTGCGCC	CAGCTCGACG	GCACTGGGCC	AGTTCCCCCT	CTGCTCTGCA	1200
	GCTCGGTTTC	CTTTTCTAGA	ATGGAAATAG	TGAGGGCCAA	TGC		1243

Seq ID NO: C88 DNA Sequence

Nucleic Acid Accession #: NM_005130

Coding sequence: 98..802

	1	11	21	31	41	51	
30	CTCTACCTGA	CACAGCTGCA	GCCTGCAATT	CACCTCCACT	GCCTGGGATT	GCCTGGATC	60
	CGTGTGCTCA	GAACAAGGTG	AACGCCACGC	TGCAGCCATG	AAGATCTGTA	GCCTCACCTT	120
35	GCTCTCCTTC	CTCCTACTGG	CTGCTCAGTT	GCTCCTGGTG	GAGGGGAAAA	AAAAAGTGAA	180
	GAATGGACTT	CACAGCAAAAG	TGGTCTCAGA	ACAAAAGGAC	ACTCTGGGCA	ACACCCAGAT	240
	TAAGCAGAAA	AGCAGGCCCG	GGAAACAAAG	CAAGTTTGTC	ACCAAGAGAC	AGGCCAAGCT	300
	CAGATGGGCT	GCTACTGAGC	AGGAGGAGGG	CATCTCTCTC	AAGTTGAGT	GCCTCAATT	360
40	GGACCATGAA	TTTTCTCTGT	TCTTTGCTGG	CAATCCAACC	TCATGCCTAA	AGCTCAAGGA	420
	TGAGAGAGTC	TATTGGAAAC	AAGTTGCCCG	GAATCTGCGC	TCACAGAAAG	ACATCTGTAG	480
	ATATTCCAAG	ACAGCTGTGA	AAACCAAGAT	GTGCAGAAAG	GATTTTCAG	AATCCAGTCT	540
	TAAGCTATGC	AGCTCCATCT	TATTTGGGAA	CACAAAGCCC	AGGAAGGAGA	AAACAGAGAT	600
	GTCCCCAGG	GAGCACATCA	AGGGCAAGGA	GACCAACCCC	TCTAGCCTAG	CAGTGACCCA	660
45	GACCATGGCC	ACCAAAGCTC	CCGAGTGTGT	GGAGGACCCA	GATATGGCAA	ACCAAGAGGA	720
	GACTGCCCTG	GAGTCTCTGT	GAGAGACTTG	GAGCTCTCTC	TGCACATTCT	TCCTCAGCAT	780
	AGTGAGAGAC	ACGTCTGTGT	AATGAGGTCA	AAAGAGAAAG	GGTTTCTTTA	AGAGATGTCA	840
	TGTCTGAAGT	CCCTCTGTAT	ACTTTAAAGC	TCTCTACAGT	CCCCCAAAA	TATGAACCTT	900
	TGTGCTTAGT	GAGTGCAAGC	AAATATTTAA	ACAAGTTTGT	TATTTTGTGC	TTTTGTGTTT	960
50	TGGAATTTGC	CTTATTTTTC	TTGGATGCGA	TGTTCAAGAG	CTGTTTCTGT	CAGCATGTAT	1020
	TTCCATGGCC	CACACAGCTA	TGTGTTTGTG	CACGCAAGAG	TCTTTGAGCT	GAATGAGCCA	1080
	GAGTGATTAAT	TTCAAGTGCA	CGAACCTTCT	GCTGAATTTA	TGTAATATAA	ACTCTGGGTG	1140
	TTTTTCAAAA	AAAAAAAATA	AAA				1163

Seq ID NO: C89 DNA Sequence

Nucleic Acid Accession #: BC022542

Coding sequence: 274..927

	1	11	21	31	41	51	
60	ACTTGGTCCC	AGCCGATAAA	TCTGGGGCAG	CGCGCGGTAG	GAGCTGCGGG	CGGCCAGGCC	60
	CCTTCCTGCG	TCCGCACCTG	GCCCCGCGCG	CCCTCTCTGG	CGCTCCGCGT	TCCGGCGTCC	120
	TGGCGGCTCG	GGTGGCGGGG	GTTCGGGGGG	CGGCTGCGCT	GCTCCTCGGG	CGGCGCAGCG	180
	GGCTCACCGG	CGGGCCCGCC	ACGGCCTTCA	CGGCGCGCGG	CTCTGACGCC	GGCATAAGGG	240
65	CCATGTGTTC	TGAAATTAAT	TTGAGGCAAG	AAGTTTGTAA	AGATGGTTTC	CACAGAGACC	300
	TTTTAATCAA	AGTGAAGTTT	GGGGAAGCA	TTGAGGACTT	GCACACGTGC	CGTCTCTTAA	360
	TTAAACAGGA	CATTCTCTGA	GGACTTTATG	TGGATCCGTA	TGAGTTGGCT	TCATTACGAG	420
	AGAGAAACAT	AACAGAGGCA	GTGATGGTTT	CAGAAAATTT	TGATATAGAG	GCCCCTAAC	480
	ATTTGTCCAA	GGAGTCTGAA	GTTCTCATTT	ATGCCAGAGC	AGATTACAG	TGCATTGACT	540
70	GTTTTCAGCG	CTTTTTCGCT	GTGCACTGCC	GCTATCATCG	GCCGCACAGT	GAAGATGGAG	600
	AAGCCTTCGAT	TGTGGTCAAT	AACCCAGATT	TGTTGATGTT	TTGTGACCAA	GAGTTCCCGA	660
	TTTTGAAATG	CTGGGCTCAC	TCAGAAAGTG	CAGCCCTTGG	TGCTTTGGAT	AATGAGGATA	720
	TATGCCAATG	GAACAAGATG	AAGTATAAAT	CAGTATATAA	GAATGTGATT	CTACAAGTTC	780
	CAGTGGGACT	CAGTGTACAT	ACCTCTCTAG	TATGTTCTGT	GACTCTGTCT	ATTACAATCC	840
75	TGTGCTCTAC	ATTGATCCTT	GTAGCAGTTT	TCAAATATGG	CCATTTTTC	CTATAAGTTT	900
	TATGTAGTTA	AATGCTTCTC	AGAAAACCTAA	ATAAGATCTA	TTAATTTCTG	ACGAGAGGTG	960
	TTCTTCTAGA	ATTAAATTAAT	TTTATCTTTT	GTCTTCATTT	TGGGCCAAAA	TTATGTTTAC	1020
	TAGAGGAAT	TTGGGATCAT	TCTCAGCTAA	TTCCAAAATG	TAGTGTCTTA	TTGCATGGAT	1080
	CCTTGTGAAT	CCTCAAGCAT	CAGATGCCAT	AAGGGGAAAC	TAAATCTGTC	TAAATTAATG	1140
80	TTTATTTTGT	GAGAAGTGAC	TTTATCTTCA	TTTGGGGTAG	AAAAATTATT	TCCTTATGTA	1200
	GTAGAGACAA	ATTATTTCTA	TTTTGCAAGT	ACTTTCAATT	TAAGCTACAA	ATTGAGAAAA	1260
	CCGTTATATA	TAGAAATAAA	ATAGGCCAGG	CACAGTGGCT	CACACCTGTA	ATCCAGCAC	1320
	TTTGGGAGGC	CGAGGTGGGC	GGATCACCAG	AGGTCAAGAG	TTTGAGACCA	GCTTGGTGAA	1380
	ACCTGTCTCT	TACTAAAAAT	ACAAAAGTTA	GCTGGGGCTG	GTGGTGGGCA	TCTGTAGTCC	1440
	CAGCTAATTG	GAAGGGTGAG	GCGGGAGGAT	CGCTTGAACC	TGGAGGCGGG	AGGTTCCAGA	1500

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 GAGCCAAGAT CGCACCACCTG CACTACAGCC TGGGCGACAG AACGAGACCC TGTCTCCAAA 1560
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 CTAAGAAATT AATATTAAATA TAAAAATTAT TGATAATCTT AAATTATTGA TTATTCCTTA 1740
 AGGCACTCCA TTCTCTTTT ACATTTTATC ATGTTTCTTT TGAATATATG AATTGGCAAA 1800
 GGACTTGATG AAACCTAGTA CTAAGATTG GTACAGAGTA TGTACGGAAG ACAACTCAGA 1860
 TTGCCATTTT AAATAAGTT GTACATGAAC AAAAAA AAAA 1906

10
 Seq ID NO: C90 DNA Sequence
 Nucleic Acid Accession #: NM_004994
 Coding sequence: 20..2143

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 CCTGAGAAC AATCTCACCG ACAGGCAGCT GGCAGAGGAA TACCTGTACC GCTATGGTTA 180
 CACTCGGCTG GCAGAGATGC GTGGAGAGTC GAAATCTCTG GGGCTGTGCG TGCTGCTTCT 240
 CCAGAAGCAA CTGTCCCTGC CCGAGACCGG TGAGCTGGAT AGGCCACGCG TGAAGGCCAT 300
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 CAAGTGGCAC CACCAACACA TCACCTATTG GATCCAAAC TACTCGGAAG ACTTGCOCGG 420
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 30 CATGCCACT CGAAGTCGCA CTGCTATGGA AAGTGGGTGC AGGTGGTGGG CACCTGGCG 480
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 35 AACTCATTGA TTTTGGTTCT GGTGCCCTGC TTCTGATGA ACCCTACACT GACTTTGATG 780
 GGACAAGGTT GTACAGCCCC CCAGAGTGGG TCTCTCGACA CCAGTACCAT GCACCTCCGG 840
 CCACCTGTCT GTCACTGGGC ATCCTCTCT ATGACATGGT GTGTGGGGAC ATTCCCTTTG 900
 AGAGGGACCA GGAGATTCTG GAAGCTGAGC TCCACTTCCC AGCCCATGTG TCCCCAGACT 960
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 40 AGATCCTGCT GGACCCCTGG ATGCAACAC CAGCCGAGGA TGTACCCCT CAACCCCTCC 1080
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 GTTGAAGTGG TTTTACAGGT CATTACCAAT CATTAAAGTC CAGTATTACT AAGTGAAGGG 1260
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 45 CAAAGGAGCC TTCTCCCGAG AACCTGTGGT CCCTGATTTT GGAGGGGGAA CTTCTTGCTT 1380
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 55 CTGAGCCGGG ATGTTCCAAT TACTAAATG TAAATAATCA CGTATTGTGG AGGAGGGAGT 1980
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Seq ID NO: C95 DNA Sequence
 Nucleic Acid Accession #: NM_002510.1
 Coding sequence: 92..1774

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 65 TCTGCTCCTG GCTGCAAGAT TGCCACTTGA TGCCGCCAAA CGATTTCATG ATGTGCTGGG 180
 CAATGAAGA CTTCTGCTT ACATGAGGGA GCACAATCAA TTAATGGCT GGTCTTCTGA 240
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 70 AAACCTCTGG AAGGAGGCC GTGTGAGGC GGTCTGACC AGTGACTCAC CAGCCCTCGT 360
 GGGCTCAAAT ATACATTTG CGGTGAACCT GATATTCCCT AGATGCCAAA AGGAAGATGC 420
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5	GCCATGGCCT	GAAAGCTCCC	TAATAGACTT	TGTCGTGACC	TGCCAAGGGA	GCATTCCCAC	1320
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	CCCTGTGGAT	GTGGATGAGA	TGTGTCTGCT	GACTGTGAGA	CGAACCTTCA	ATGGGTCTGG	1440
	GACGTACTGT	GTGAACCTCA	CCCTGGGGGA	TGACACAAGC	CTGGCTCTCA	CGAGCACCCCT	1500
	GATTTCCTGT	CCTGACAGAG	ACCCAGCCTC	GCCTTTAAGG	ATGGCAAAAC	GTGCCCTGTAT	1560
	CTCCGTGGC	TGCTTGGCCA	TATTTGTCAC	TGTGATCTCC	CTCTTGGTGT	ACAAAAAACA	1620
	CAAGGAATAC	AACCCAAATAG	AAAATAGTCC	TGGGAATGTG	GTCAGAAGCA	AAGGCCTGAG	1680
	TGCTTTTCTC	AACCGTGCAA	AAGCCGTGTT	CTTCCCGGGA	AACCAGGAAA	AGGATCCGCT	1740
10	ACTCAAAAA	CAAGAATTTA	AAGGAGTTTC	TTAAATTTGC	ACCTTGTTC	TGAAGCTCAC	1800
	TTTTCAGTGC	CATTGATGTG	AGATGTGCTG	GAGTGGCTAT	TAACCTTTTT	TTCTTAAAGA	1860
	TTATTGTATA	ATAGATATTG	TGGTTTGGGG	AAGTTGAATT	TTTTATAGGT	TAAATGTCAT	1920
	TTTAGAGATG	GGGAGAGGGA	TTATACTGCA	GCCAGCTTCA	GCCATGTTGT	GAAACTGATA	1980
	AAAGCAACTT	AGCAAGGCTT	CTTTTCATTA	TTTTTTATGT	TTCACTTATA	AAGTCTTAGG	2040
15	TAACCTAGTAG	GATAGAAAAC	CTGTGTCCCG	AGAGTAAGGA	GAGAAAGCTAC	TATTGATTAG	2100
	AGCCTAAACC	AGGTTAACTG	CAAGAAGAGG	CGGGATACTT	TCAGCTTTCC	ATGTAACCTG	2160
	ATGCATAAAG	CCAATGTAGT	CCAGTTTCTA	AGATCATGTT	CCAAGCTAAC	TGAATCCAC	2220
	TTCAATACAC	ACTCATGAAC	TCCTGATGGA	ACAATAACAG	GCCCAAGCCT	GTGGTATGAT	2280
	GTGCACACTT	CTAGACTCA	GAAAAAATAC	TACTCTCATA	AATCGGTGGG	AGTATTTTGG	2340
20	TGACAACCTA	CTTTGCTTGG	CTGAGTGAAG	GAATGATATT	CATATATTCA	TTTATTCCAT	2400
	GGACATTTAG	TTAGTGCTTT	TTATATACCA	GGCATGATGC	TGAGTGACAC	TCCTTGTGAT	2460
	ATTTCCAAAT	TTTTGTATAG	TCGCTGCACA	TATTTGAAAT	CATATATTAA	GACTTTCCAA	2520
	AGATGAGTGC	CCTGTTTTTT	CATGGCAACT	TGATCAGTAA	GGATTTCCAC	TCGTGTTGTA	2580
	ACTAAAACCA	TCTACTATAT	GTTAGACATG	ACATTCTTTT	TCTCTCCTTC	CTGAAAAATA	2640
25	AAGTGTGGGA	AGAGACAAAA	AAAAAATA				2669

Seq ID NO: C96 DNA Sequence
Nucleic Acid Accession #: Bos sequence
Coding sequence: 1..4247

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35	ACAGGAGCAC	TGAATCAAAA	AAATTGGGGA	AAGAAATATC	CAACATGTAA	TAGCCCAAAA	180
	CAATCTCCTA	TCAATATTGA	TGAAGATCTT	ACACAAGTAA	ATGTGAATCT	TAAGAAACTT	240
	AAATTTACGG	GTTGGGATAA	AACATCAATT	GAAAAACAT	TCATTCTATA	CAGTGGGAAA	300
	ACAGTGGAAA	TTAATCTCAC	TAATGACTAC	CGTGTGAGCG	GAGGAGTTTC	AGAAATGGTG	360
	TTTAAAGCAA	GCAAGATAAC	TTTTCACTGG	GGAAAAATGCA	ATATGTCATC	TGATGGATCA	420
40	GAGCATAGTT	TAGAAGGACA	AAAATTTCCA	CTTGAGATGC	AAATCTACTG	CTTTGATGCA	480
	GACCGATTTT	CAAGTTTGA	GGAAGCAGTC	AAAGGAAAAG	GGAAGTTAAG	AGCTTTATCC	540
	ATTTTGTGTT	AGTTTGGGAC	AGAAGAAAAAT	TTGGATTTC	AAGGATTTAT	TGATGGAGTC	600
	GAAAGTGTTA	GTGTTTTTGG	GAAGCAGGCT	GCTTTAGATC	CATTCTACT	GTTGAACCTT	660
	CTGCCAAACT	CAACTGACAA	GTATTACATT	TACAATGGCT	CATTGACATC	TCCCTCCCTGC	720
45	ACAGACACAG	TTGACTGGAT	TGTTTTTAAA	GATACAGTTA	GCATCTCTGA	AAGCCAGTTG	780
	GCTGTTTTTT	GTGAAGTTCT	TACAATGCAA	CAATCTGGTT	ATGTCATGCT	GATGGACTAC	840
	TTACAAACCA	ATTTTCGAGA	GCAACAGTAC	AAGTTCTCTA	GACAGGTGTT	TTCTCTATAC	900
	ACTGGAAGGG	AAGAGATTCA	TGAAGCAGTT	TGTAGTTTCA	AACAGAAAAA	TGTTTCCAGCT	960
	GACCCAGAGA	ATTATACCA	CCTTCTTGT	ACATGGGAAA	GACCTCGAGT	CGTTTATGAT	1020
50	ACCATGATTG	AGAAGTTTGC	AGTTTTGTAT	CAGCAGTTGG	ATGGAGAGGA	CCAAACCAAG	1080
	CATGAATTTT	TGACAGATGG	CTATCAAGAC	TTGGGTGCTA	TTCTCAATAA	TTTGCTACCC	1140
	AATATGAGTT	ATGTTCTTCA	GATAGTAGCC	ATATGCACTA	ATGGCTTATA	TGGAATAATC	1200
	AGCGACCAAC	TGATGTGCGA	CATGCCTACT	GATAATCCTG	AACCTGATCT	TTTCCCTGAA	1260
	TTAATTGGAA	CTGAAGAAAT	AATCAAGGAG	GAGGAAGAGG	GAAAGACAT	TGAAGAGGGC	1320
55	GCTATTGTGA	ATCTGGTAG	AGACAGTGCT	ACAAACCAAA	TCAGGAAAAA	GGAAACCCAG	1380
	ATTTCTACCA	CAACACACTA	CAATCGCATA	GGGACGAAAT	ACAATGAAGC	CAAGACTAAC	1440
	CGATCCCCAA	CAGGAGGAAG	TGAATTCTCT	GGAAAGGGTG	ATGTTCCCAA	TACATCTTTA	1500
	AATTCACATT	CCCAACCACT	CACTAAATTA	GCCACAGAAA	AAGATATTTT	CTTGACTTCT	1560
	CAGACTGTGA	CTGAACTGCC	ACCTCACACT	GTGGAAGGTA	CTTCAGCCTC	TTTAAATGAT	1620
60	GGCTCTAAAA	CTGTTCTTAG	ATCTCCACAT	ATGAACTTGT	CGGGGACTGC	AGAATCCTTA	1680
	AATACAGTTT	CTATAACAGA	ATATGAGGAG	GAGAGTTTAT	TGACCAAGTT	CAAGCTTGAT	1740
	ACTGGAGCTG	AAGATTCTTC	AGGCTCCAGT	CCCGCAACTT	CTGCTATCCC	ATTCTATCTT	1800
	GAGAACATAT	CCCAAGGGTA	TATATTTTCC	TCCGAAAAAC	CAGAGACAAT	AACATATGAT	1860
	GTCTTATAC	CAGAACTGCG	TAGAAATGCT	TCCGAAGATT	CAACTTCTAT	AGSTTCAGAA	1920
65	GAATCACTAA	AGGATCCTTC	TATGGAGGGA	AATGTGTGGT	TTCTAGCTC	TACAGACATA	1980
	ACAGCACAGC	CGAGTGTGG	ATCAGGCAGA	GAGAGCTTTC	TCCAGACTAA	TTACACTGAG	2040
	ATACGTGTTG	ATGAATCTGA	GAAGACAACC	AAGTCCTTTT	CTGCAGGCC	AGTGATGTCA	2100
	CAGGTCCTCT	CAGTTACAGA	TCTGGAATG	CCACATTATT	CTACCTTTGC	CTACTTCCCA	2160
	ACTGAGGTAA	CACCTCATGC	TTTTACCCCA	TCTTCCAGAC	AACAGGATT	GCTCTCCACG	2220
70	GTCAACGTGG	TATACTCGCA	GACAAACCAA	COGGTATACA	ATGAGGCCAG	TAATAGTAGC	2280
	CATGAGTCTC	GTATTGGTCT	AGCTGAGGGG	TTGGAATCCG	AGAAGAGGCG	AGTTATACCC	2340
	CTTGTGATCG	TGTCAGCCCT	GACTTTTATC	TGTCATAGTG	TTCTTGTGGG	TATTCTCATC	2400
	TACTGGAGGA	AATGCTTCCA	GACTGCACAC	TTTTACTTAG	AGGACAGTAC	ATCCCTTAGA	2460
	GTTATATCCA	CACCTCCAAC	ACCTATCTTT	CCAATTTTCA	ATGATGTCGG	AGCAATTCCA	2520
75	ATAAAGCACT	TTCCAAAGCA	TGTTGCAGAT	TTACATGCAA	GTAGTGGGTT	TACTGAAGAA	2580
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	CCAGACAACA	AGCACAAGAA	TCGATACATA	AATATCGTTG	CCTATGATCA	TAGCAGGGTT	2700
	AAGCTAGCAC	AGCTTGCTGA	AAAGGATGGC	AAACTGACTG	ATTATATCAA	TGCCAATTAT	2760
	GTTGATGGCT	ACAACAGACC	AAAAGCTTAT	ATTGCTGCC	AAGGCCCACT	GAATCCACA	2820
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	AACCTGTGTG	AGAAAGGAAG	GAGAAAATGT	GATCAGTACT	GGCCTGCCGA	TGGGAGTGAG	2940
	GAGTACGGGA	AGTTTCTGGT	CACTCAGAAG	AGTGTGCAAG	TGCTTGCTTA	TTTACTGTG	3000
	AGGAATTTTA	CTCTAAGAAA	CACAAAAATA	AAAAGGGCT	CCAGAAAGG	AAGACCCAGT	3060
	GGACGTGTGG	TCACACAGTA	TCACTACACG	CAGTGGCCTG	ACATGGAGT	ACCAGAGTAC	3120
	TCCCTGCCAG	TGCTGACCTT	TGTGAGAAAG	GCAGCCTATG	CCAAGCGCCA	TGCAGTGGGG	3180

	CCTGTTGTGC	TCCACTGCAG	TGCTGGAGTT	GGAAGAACAG	GCACATATAT	TGTGCTAGAC	3240
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	ATCCGTTTAC	AAAGAAATTA	TTTGGTACAA	ACTGAGGAGC	AATATGTCTT	CATTATGATG	3360
5	ACACTGTGTTG	AGGCCATACT	TAGTAAAGAA	ACTGAGGTGC	TGGACAGTCA	TATTCATGCC	3420
	TATGTTAATG	CACCTCTCAT	TCCTGGACCA	GCAGGCAAAA	CAAAGCTAGA	GAACAATTC	3480
	CAGCTCTCTGA	GCCAGTCAAA	TATACAGCAG	AGTGACTATT	CTGCAGCCCT	AAAGCAATGC	3540
	AACAGGGAAA	AGAATCGAAC	TTCTTCTATC	ATCCCTGTGG	AAAGATCAAG	GGTTGGCATT	3600
	TCATCCCTGA	GTGGAGAAGG	CACAGACTAC	ATCAATGCCT	CCTATATCAT	GGGCTATTAC	3660
10	CAGAGCAATG	AATTCATCAT	TACCCAGCAC	CCTCTCCTTC	ATACCATCAA	GGATTCTCGG	3720
	AGGATGATAT	GGGACCATAA	TGCCCAACTG	GTGGTTATGA	TTCTGATGGG	CCAAAACATG	3780
	GCAGAAGATG	AATTTGTTTA	CTGGCCAAAT	AAAGATGAGC	CTATAAATTG	TGAGAGCTTT	3840
	AAGGTCACTC	TTATGGCTGA	AGAACACAAA	TGCTATCTA	ATGAGGAAAA	ACTTATAATT	3900
	CAGGACTTTA	TCTTAGAAGC	TACACAGGAT	GATTATGTAC	TTGAAGTGAG	GCACITTCAG	3960
15	TGTCCTAAAT	GGCCAAATCC	AGATAGCCCC	ATTAGTAAAA	CTTTGAACT	TATAAGTGTT	4020
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	GTGACCGCAG	TGCTTCTTCT	TGCTCTGACA	ACCCTTATGC	ACCAACTAGA	AAAAGAAAT	4140
	TCCGTGGATG	TTTACCAAGT	AGCCAAAGAT	ATCAATCTGA	TGAGGCCAGG	AGTCTTTGCT	4200
	GACATTGAGC	AGTATCAAGT	TCTCTACAAA	GTGATCTCA	GCCTTGTGAG	CACAAGGCAG	4260
20	GAAGAGAATC	CATCCACCTC	TCTGGACAGT	AATGGTGCAG	CATTGCTCTG	TGGAATATA	4320
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Seq ID NO: C97 DNA Sequence
Nucleic Acid Accession #: XM_031379
Coding sequence: 148..7095

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	CGGCGAGGGG	CGCGACAGCG	CTCTGGAAATG	CGAATCCTAA	AGCGTTTCTC	CGCTTGCAAT	180
	CAGCTCTCTCT	TGCTTTGCGG	CCTGGATTGG	GCTAATGGAT	ACTACAGACA	ACAGAGAAAA	240
	CTTGTGTAAG	AGATTGGCTG	GTCTTATACA	GGAGCACTGA	ATCAAAAAAA	TTGGGGAAAG	300
	AAATATCCAA	CATGTAATAG	CCCAAAACAA	TCTCCTATCA	ATATTGATGA	AGATCTTACA	360
35	CAAGTAATG	TGAATCTTAA	GAACCTTAAA	TTTCAGGGTT	GGGATAAAAC	ATCATTTGAA	420
	AACACATTCA	TTTATAACAC	TGGGAAAACA	GTGGAAATTA	ATCTCACTAA	TGACTACCGT	480
	GTACGCGGAG	GAGTTTGCAG	AATGGTGTTC	AAAGCAAGCA	AGATAACTTT	TCACTGGGGA	540
	AAATGCAATA	TGTCATCTGA	TGGATCAGAG	CATAGTTTAG	AAGGACAAAA	ATTTCCACTT	600
	GAGATGCCAA	TCTACTGCTT	TGATGCGGAC	CGATTTTCAA	GTTTGGAGGA	AGCAGTCAAA	660
40	GGAAAAGGGA	AGTTAAGAGC	TTTATCCATT	TTGTTTGAGG	TTGGGACAGA	AGAAAATTG	720
	GATTTCAAAG	CGATTATTGA	TGGAGTCGAA	AGTGTAGATC	GTTTGGGAAA	GCAGGCTGCT	780
	TTAGATCCAT	TCATATCTGT	GAACCTTCTG	CCAACTCAAA	CTGACAAGTA	TTACATTAC	840
	AATGGCTCAT	TGACATCTCC	TCCTGCGACA	GACACAGTGT	ACTGGATTGT	TTTAAAGAT	900
	ACAGTTGACA	TCTCTGAAGG	CCAGTTGGCT	GTTTCTTCTG	AAGTCTTCTC	AATGCAACAA	960
45	TCTGTTTATG	TCATGCTGAT	GGACTACTTA	CAAAACAATT	TTGAGAGACA	ACAGTACAAG	1020
	TTCTCTAGAC	AGGTGTTTTC	CTCATACACT	GGAAAGGAAG	AGATTCTATG	AGCAGTTTGT	1080
	AGTTCAGAAC	CAGAAAATGT	TCAGGCTGAC	CCAGAGAATT	ATACCGCCCT	TCTTGTATCA	1140
	TGGGAAGGAC	CTGAGTCGT	TTATGATACC	ATGATTGAGA	AGTTTGAGT	TTGTATCCAG	1200
	CAGTTGGATG	GAGAGGACCA	AACCAAGCAT	GAATTTTGA	CAGATGGCTA	TCAAGACTTG	1260
50	GGTGCTATTC	TCAATAATTT	GCTACCCCAAT	ATGAGTTATG	TTCTTCAGAT	AGTAGCCATA	1320
	TGCACATAAT	GCTTATATGG	AAAATACAGC	GACCAACTGA	TTGTGACAT	GCCTACTGAT	1380
	AATCTGCAAT	TTGATCTTTT	CCCTGAATTA	ATTGGAACCT	AAGAAATAAT	CAAGGAGGAG	1440
	GAAGAGGGAA	AGAGCATTGA	AGAAGGCGCT	ATTGTGAATC	CTGGTAGAGA	CAGTGTATCA	1500
55	AACCAATACA	GGAAAAGGGA	ACCCAGATT	TCTACCAACA	CACACTACAA	TGCAATAGGG	1560
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	ACAGAAAAGG	ATATTTCCTT	GACTTCTCAG	ACTGTGACTG	AACCTGCCAC	TCACACTGTG	1740
	GAAGGTACTT	CAGCCTCTTT	AAATGATGGC	TCTAAAACCT	TTCTTAGATC	TCCACATATG	1800
	AACTTGTGGG	GGACTGCGAG	ATCCTTAAAT	ACAGTTTCTA	TAACAGAATA	TGAGGAGGAG	1860
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	GCAACTTCTG	CTATCCCATT	CATCTCTGAG	AACATATCCC	AAGGGTATAT	ATTTTCTCTC	1980
	GAAGAACCCAG	AGACAATAAC	ATATGATGTC	CTTATACCAAG	AATCTGCTAG	AAATGCTTCC	2040
	GAAGATTCAA	CTTCAATCAG	TTTCAAGGAA	TCACTAAAGG	ATCCTTCTAT	GGAGGGAAAT	2100
	GTGTGGTTTC	CTAGCTCTAC	AGACATAACA	GCACAGCCCG	ATGTTGGATC	AGGCAGAGAG	2160
65	AGCTTTCTCC	AGACTAATTA	CACTGAGATA	CGTGTGATG	AATCTGAGAA	GACAACCAAG	2220
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70	ACCCCTTTGT	TGCTTGACAA	TCAGATCCCT	AACACTACCC	CTGCTGCTTC	AAGTAGTGAT	2520
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	GATAAGGTGC	CCTTGCAATG	TTCTTGCCA	GTGGCTGGGG	GTGATTGTCT	ATTAGAGCCC	2760
75	AGCCTTGCTC	AGTATTCTGA	TGTGCTGTCC	ACTACTCATG	CTGCTTCAGA	GACGCTGGAA	2820
	TTTGGTAGTG	AATCTGGTGT	TCTTTATAAA	ACGCTTATGT	TTTCTCAAGT	TGAACCAACC	2880
	AGCAGTGAAG	CCCTGATGCA	TGCACGTTCT	TCAGGGCCCT	AACCTTCTTA	TGCTTGTCT	2940
	GATAATGAGG	GCTCCCAACA	CATCTTCACT	GTTTCTTACA	GTTCTGCAAT	ACCTGTGCAT	3000
	GATTCTGTGG	GTGTAACCTA	TCAGGGTTCC	TTATTTAGCG	GCCCTAGCCA	TATACCAATA	3060
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	GGTGATGGGG	AATGGTCTGG	AGCCTCTTCT	GATAGTGAAT	TTCTTTTACC	TGACACAGAT	3180
	GGGCTGACAG	CCCTTAAACAT	TTCTTCACTT	GTTTCTGTAG	CTGAATTIAC	ATATACAACA	3240
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	ACTGAACCTG	AAATTCCTTC	TTTCAATGAG	ATGGTTTACC	CTTCTGAAAG	CACAGTCTAG	3360
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5	TCCTCTGACC	CTGCTTCTAG	TGAAATGTTA	TCTCCTTCAA	CTCAGCTCTT	ATTTTATGAG	3660
	ACCTCAGCTT	CTTTTAGTAC	TGAAGTATTG	CTACAACCTT	CCTTTTCAGGC	TTCTGATGTT	3720
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15	ATTCCACAG	TTGCTTCTGA	TACATTGTGA	TCTACTGATC	ATTCTGTCTC	TATAGGAAAT	4260
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	TTAGTGGGTG	GTGGTGAAGA	TGGTGACACT	GATGATGATG	GTGATGATGA	TGATGATGAC	4440
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	CCAATCTCAT	ACTCACTATC	TGAGAAATCT	GAAGAAGATA	ATAGAGTCA	AAGTGTATCC	4620
	TCAGACAGAT	AACTGGTAT	GGACAGAAAT	CCTGGTAAAT	CACCATCAGC	AAATGGGCTA	4680
	TTCCAAAAGC	ACAAATGATG	AAAAGAGGAA	AATGACATTC	AGACTGGTAG	TGCTCTGCTT	4740
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	TCAGAGGCG	AGGCCAGTAA	TAGTAGCCAT	GAGTCTCGTA	TTGGTCTAGC	TGAGGGGTTG	5040
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30	CTAGTGGTTC	TTGTGGGTAT	TCTCATCTAC	TGGAGGAAAT	GCTTCCAGAC	TGCACACTTT	5160
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	GCTGCCAATA	GGGATGGGCC	TATGATTGTT	CATGATGAGC	ATGGAGGAGT	GACGGCAGGA	6840
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Nucleic Acid Accession #: NM_002851
Coding sequence: 77..4518

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	CAGCTCCTCT	GTGTTTGCCG	CCTGGATTGG	GCTAATGGAT	ACTACAGACA	ACAGAGAAAA	240
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	CAAGTAAATG	TGAATCTTAA	GAACCTTAAA	TTTCAGGGTT	GGGATAAAAC	ATCATTGGAA	420
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	CCACCTCTCT	GGACAGTAAT	GGTGACGAT	TGCTGATGG	AAATATAGCT	GAGAGCTTAG	4500
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	TCCTAAAT	AGGCAGGAAA	ATCAGTCTAG	TTCTGTTATC	TGTTGATTTC	CCATCACCTG	4620
	ACAGTAAC	TCTTGACATA	GGATTCTGCC	GCCAAATTTA	TATCATTAAC	AATGTGTGCC	4680
	TTTTTGCAAG	ACTTGTAATT	TACTTATTAT	GTTTGAAC	AAATGATTGA	ATTTTACAGT	4740
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	AATAAAACAC	TCTTCCATAT	GATATTCAAC	ATTTTACAAC	TGCAGTATTC	ACCTAAAGTA	4980
	GAAATAATCT	GTTACTTATT	GTAATACTG	CCCTAGTGTC	TCCATGGACC	AAATTTATAT	5040
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15	TTTAGTTTAA	TGACGTAGTT	CATTAGCTGG	TCTTACTCTA	CCAGTTTCT	GACATTGTAT	5160
	TGTGTTACCT	AAGTCATTAA	CTTTGTTTCA	GCATGTAATT	TTAATCTTTG	TGGAAAAATG	5220
	AAATACCTTC	ATTTTGAAAG	AAGTTTAT	GAGAATAACA	CCTTACCAAA	CATTGTTCAA	5280
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20 Seq ID NO: C100 DNA Sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 148..4362

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30	CAGCTCCTCT	GTGTTTGCCG	CCTGGATTGG	GCTAATGGAT	ACTACAGACA	ACAGAGAAAA	240
	CTTGTGGAAG	AGATTGGCTG	GTCCATATACA	GGAGCACTGA	ATCAAAAAAA	TTGGGGAAAG	300
	AAATATCCAA	CATGTAATAG	CCCAAAACAA	TCTCCTATCA	ATATTGATGA	AGATCTTACA	360
	CAAGTAATCT	TGAATCTTAA	GAAACTTAA	TTTCAGGGTT	GGGATAAAAC	ATCATTTGGA	420
	AACACATCCA	TTCAATAAC	TGGGAAACAA	GTGAAATTA	ATCTCACTAA	TGACTACOGT	480
35	GTGAGGGGAG	GAGTTTCAGA	AATGGTGTGT	AAAGCAAGCA	AGATAACTTT	TCACTGGGGA	540
	AAATGCAATA	TGTCATCTGA	TGGATCAGAG	CATAGTTTAG	AAGGACAAAA	ATTTCCACTT	600
	GAGATGCAAA	TCTACTGCTT	TGATGCGGAC	CGATTTTCAA	GTTTTGAGGA	AGCAGTCAAA	660
	GGAAAGGGGA	AGTTAAGAGC	TTTATCCATT	TTGTTTGAGG	TTGGGACAGA	AGAAATTTTG	720
	GATTTCAAG	CGATTATTGA	TGGAGTCGAA	AGTGTAGTCT	GTTTTGGGAA	GCAGGCTGCT	780
40	TTAGATCCAT	TCATACTGTT	GAACCTTCG	CCAAACTCAA	CTGACAAGTA	TTACATTTAC	840
	AATGGCTCAT	TGACATCTCC	TCCTGCGACA	GACACAGTTG	ACTGGATTGT	TTTTAAAGAT	900
	ACAGTTAGCA	TCTCTGAAAG	CCAGTTGGCT	GTITTTTTGT	GAAGTTCCTA	CAATGCAACA	960
	ATCTGGTTAT	GTCACTGCTGA	TGGACTACTT	ACAAACAAT	TTTCGAGAGC	AACAGTACAA	1020
	GTTCCTAGCA	CAGGTGTTTT	CCTCATACAC	TGGAAGGAA	GAGATTCAAT	AAGCAGTTTG	1080
45	TAGTTTCAGAA	CCAGAAATG	TTGAGGCTGA	CCCAGAGAA	TATACCAGCC	TTCTTGTATC	1140
	ATGGGAAAGA	CCTCGAGTCC	TTTATGATAC	CATGATTGAG	AAGTTTGAG	TTTTGTACCA	1200
	GCAGTTGGAT	GGAGAGGACC	AAACCAAGCA	TGAATTTTGA	ACAGATGGCT	ATCAAGACTT	1260
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	ATGCCTAAT	GGCTTATATG	GAAATACAG	CGACCAACTG	ATTGTCGACA	TGCTTACTGA	1380
50	TAATCCTGAA	CTTGATCTTT	TCCTGAAATT	AATTGGAATT	GAAGAAATAA	TCAAGGAGGA	1440
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	GACGAAATAC	AATGAAGCCA	AGACTAACCG	ATCCCAACA	AGAGGAAGTG	AATCTCTTGG	1620
	AAAGGGTGAT	GTTCCTCAAT	CATCTTTAAA	TTCCACTTCC	CAACCACTCA	CTAAATTAGC	1680
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60	CGAAACCCCA	GAGACAATAA	CATATGATGT	CCTTATACCA	GAATCTGCTA	GAAATGCTTC	2040
	CGAAGATCCA	ACTTCATCAG	GTTCAGAAGA	ATCACTAAG	GATCCTTCTA	TGGAGGGAAA	2100
	TGTGTGGTTT	CCTAGCTCTA	CAGACATAAC	AGCACAGCCC	GATGTTGGAT	CAGGAGAGGA	2160
	GAGCTTTCTC	CAGACTAATT	ACACTGAGAT	ACGTGTTGAT	GAATCTGAGA	AGACAACCAA	2220
	GTCCCTTTCT	GCAGGCCAG	TGATGTGACA	GGGTCCCTCA	GTTACAGATC	TGGAAATGCC	2280
65	ACATTATTCT	ACCTTTGCGT	ACTTCCCAAC	TGAGGTAACA	CCTCATGCTT	TTACCCCATC	2340
	CTCCAGACAA	CAGGATTGGG	TCTCCACGGT	CAACGTGGTA	TACTCGCAGA	CAACCCAAAC	2400
	GGTATACAA	GAGGCCAGTA	ATAGTAGCCA	TGAGTCTCGT	ATTGGTCTAG	CTGAGGGGTT	2460
	GGAAATCCAG	AAGAAGGCAG	TTATACCCCT	TGTGATCGTG	TCAGCCCTGA	CTTTTATCTG	2520
	TCTAGTGGTT	CTTGTGGGTA	TTCTCATCTA	CTGGAGGAAA	TGCTTCCAGA	CTGCACACTT	2580
70	TTACTTAGAG	GACAGTACAT	CCCCTAGAGT	TATATCCACA	CCTCCACAC	CTATCTTTCC	2640
	AATTTTCAGAT	GATGTCGGAG	CAATTCCAAT	AAAGCACTTT	CCAAAGCATG	TTGCAGATTT	2700
	ACATGCAAGT	AGTGGGTTTA	CTGAAGAAAT	TGAGACACTG	AAAGAGTTT	ACCAGGAAGT	2760
	GCAGAGCTGT	ACTGTTGACT	TAGGTATTAC	AGCAGACAGC	TCCAACCAAC	CAGACAACAA	2820
	GCACAAGAA	CGATACATAA	ATATCGTTGC	CTATGATCAT	AGCAGGGTTA	AGCTAGCACA	2880
75	GCTTGCTGAA	AGGATGGCAA	ACTGACTGAT	TATATCAATG	CCAATTATGT	TGATGGCTAC	2940
	AACAGACCAA	AAGCTTATAT	TGCTGCCCAA	GGCCCACTGA	AATCCACAGC	TGAAGATTTC	3000
	TGGAGAAATGA	TATGGGAACA	TAATGTGAA	GTTATTGTCA	TGATAACAAA	CCTCGTGGAG	3060
	AAAGGAAGGA	GAAATGTGTA	TCAGTACTGG	CCTGCCGATG	GGAGTGAGGA	GTACGGGAAC	3120
	TTTCTGGTCA	CTCAGAAGAG	TGTGCAAGTG	CTTGCTTATT	ATACTGTGAG	GAAATTTTACT	3180
80	CTAAGAAACA	CAAAATATAA	AAAGGGCTCC	CAGAAAGGAA	GACCCAGTGG	ACGTGTGGTC	3240
	ACACAGTATC	ACTACACGCA	GTGGCCTGAC	ATGGGAGTAC	CAGAGTACTC	CCTGCCAGTG	3300
	CTGACCTTTG	TGAGAAAGGC	AGCCTATGCC	AAGCGCCATG	CAGTGGGGCC	TGTTGTGCTC	3360
	CAGTGCAGTG	CTGGAGTTGG	AAGAACAGGC	ACATATATTG	TGCTAGACAG	TATGTTGCAG	3420
	CAGATTCAAC	ACGAAGGAAC	TGTCAACATA	TTTGGCTTCT	TAAACACAT	CCGTTTCAAC	3480
	AGAAATTATT	TGGTACAAAC	TGAGGAGCAA	TATGTCTTCA	TTCATGATAC	ACTGGTTGAG	3540

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	CTGTCAACCA	GGCTGGAGTG	CAGAGGCACA	ATCTGGGCTC	ACTGCAACCT	TCCTCTCCCT	3720
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	TCAAAATATAC	AGCAGAGTGA	CTATTCTGCA	GCCTAAAGC	AATGCAACAG	GGAAAAGAAT	3840
	CGAAGCTCTT	CTATCATCCC	TGTGGAAAGA	TCAAGGGTTG	GCATTTCATC	CCTGAGTGGA	3900
	GAAGGCACAG	ACTACATCAA	TGCCTCCTAT	ATCATGGGCT	ATTACCAAG	CAATGAATTC	3960
	ATCATTACCC	AGCACCCCTC	CCTTCATACC	ATCAAGGATT	TCTGGAGGAT	GATATGGGAC	4020
10	CATAATGCC	AACTGGTGGT	TATGATTCTT	GATGGCCAAA	ACATGGCAGA	AGATGAATTT	4080
	GTTTACTGGC	CAAAATAAGA	TGAGCCTATA	AATTGTGAGA	GCTTTAAGGT	CACCTCTATG	4140
	GCTGAAGAAG	ACAAATGTCT	ATCTAATGAG	GAAAAACTTA	TAATTCAGGA	CTTTATCTTA	4200
	GAAGCATAC	AGGATGATTA	TGTACTGAA	GTGAGGCACT	TTCAGTGTCC	TAAATGGCCA	4260
	AATCCAGATA	GCCCCATTAG	TAAACTTTT	GAACCTTATA	GTGTTATATA	AGAAGAAGCT	4320
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	ACCTCTCTGG	ACAGTAATGG	TGCAGCATTG	CCTGATGGAA	ATATAGCTGA	GAGCTTAGAG	4620
20	TCTTTAGTTT	AACACAGAAA	GGGGTGGGGG	GACTCACATC	TGAGCATTGT	TTTCTCTTTC	4680
	CTAAAATTAG	GCAGAAAAAT	CAGTCTAGTT	CTGTTATCTG	TTGATTTCCT	ATCACTGTAC	4740
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25	ATAGAGGTTA	GGAATTTCCAA	ACTACAGAAA	ATGTTTGTGT	TTAGTGTCAA	ATTTTATAGCT	4980
	GTATTGTAG	CAATTATCAG	GTTTGTCTAG	AATATAACTT	TTAATACAGT	AGCCTGTAAA	5040
	TAAACACTCT	TTCCATATGA	TATTCAACAT	TTTCAACTCG	CAGTATTCAC	CTAAAGTAGA	5100
	AATAATCTGT	TACTTATTGT	AAATACTGCC	CTAGTGTCTC	CAATGACCAA	ATTTATATTT	5160
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30	TAGTTTAATG	ACGTAGTTCA	TTAGCTGGTC	TTACTCTACC	AGTTTTCTGA	CATTGTATTG	5280
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	ATACCTTCAT	TTTGAAGAAA	GTTTTATGTA	GAATAACACC	TTACCAACAA	TTGTTCAAT	5400
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Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..3340

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45	CAATCTCCTA	TCAATATTGA	TGAAGATCTT	ACACAAGTAA	ATGTGAATCT	TAAGAACTT	240
	AAATTTTCAGG	GTGGGATATA	AACATCATTT	GAAACACAT	TCATTCTATA	CAGTGGGAAA	300
	ACAGTGGAAA	TTAATCTCAC	TAATGACTAC	CGTGTACGCG	GAGGAGTTTC	AGAAATGGTG	360
	TTTAAAGCAA	GCAAGATAAC	TTTCACTGG	GGAAATATGCA	ATATGTATC	TGATGGATCA	420
	GAGCATAGTT	TAGAAGGACA	AAAATTTCCA	CTTGAGATGC	AAATCTACTG	CTTTGATGCG	480
50	GACCGATTTT	CAAGTTTGA	GGAAGCAGTC	AAAGGAAAAG	GGAAGTTAAG	AGCTTTATCC	540
	ATTTTGTGTTG	AGGTTGGGAG	AGAAGAAAAT	TTGGATTTC	AAGCGATTAT	TGATGGAGTC	600
	GAAAGTGTGA	GTGCTTTTGG	GAAGCAGGCT	GCTTTAGATC	CATTCTACT	GTGGAACCTT	660
	CTGCCAACT	CACTGACAA	GTATTACAT	TACAATGGCT	CATTGACATC	TCTCTCTGC	720
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	TTACAAACAA	ATTTTCGAGA	GCAACAGTAC	AAGTTCTCTA	GACAGGTGTT	TTCTCTATAC	900
	ACTGGAAGGG	AAGAGATTCA	TGAAGCAGTT	TGTAGTTTCA	AACCAAGAAA	TGTTCAAGCT	960
	GACCCAGAGA	ATTAACACAG	CCTTCTTGT	ACATGGGAAA	GACCTCGAGT	CGTTTATGAT	1020
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60	CATGAATTTT	TGACAGATGG	CTATCAAGAC	TTGGGTGCTA	TTCTCAATA	TTTGCTACCC	1140
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	AGCGACCAAC	TGATTTGTGA	CATGCCTACT	GATAATCCTG	AGGCCAGTAA	TAGTAGCCAT	1260
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65	TGGAGGAAAT	GCTTCCAGAC	TGCACACTTT	TACTTAGAGG	ACAGTACATC	CCCTAGAGTT	1440
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70	TATGATCATA	GCAGGGTTAA	GCTAGCACAG	CTTGCTGAAA	AGGATGGCAA	ACTGACTGAT	1740
	TATATCAATG	CCAATTATGT	TGATGGCTAC	AACAGACCAA	AAGCTTATAT	TGCTGCCCAA	1800
	GGCCCACTGA	AATCCACAGC	TGAAGATTTC	TGGAGAATGA	TATGGGAACA	TAATGTGGAA	1860
	GTTATTGTCA	TGATAACAAA	CCTCGTGGAG	AAAGGAAGGA	GAAATGTGA	TCAGTACTGG	1920
	CCTGCCGATG	GAGTGTAGGA	GTACGGGAAC	TTTCTGGTCA	CTCAGAAGAG	TGTGCAAGTG	1980
75	CTTGCCCTATT	ATACTGTGAG	GAATTTTACT	CTAAGAAAACA	CAAAAATAAA	AAAGGGCTCC	2040
	CAGAAAGGAA	GACCCAGTGG	ACGTGTGGTC	ACACAGTATC	ACTACACGCA	GTGGCCTGAC	2100
	ATGGGAGTAC	CAGATGATC	CCTGCCAGTG	CTGACCTTTG	TGAGAAAGGC	AGCCTATGCC	2160
	AAGCGCCATG	CAGTGGGGCC	TGTTGTCTGC	CACTGCAGTG	CTGGAGTTGG	AAGAACAGGC	2220
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	GCAGCCCTAA	AGCAATGCAA	CAGGGAAGAG	AATCGAACTT	CTTCTATCAT	CCCTGTGGAA	2580
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5	GAGGAAAAAC	TTATAATTCA	GGACTTTATC	TTAGAAGCTA	CACAGGATGA	TTATGTACTT	2940
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	CAACTAGAAA	AAGAAAAATC	CGTGGATGTT	TACCAGGTAG	CCAAGATGAT	CAATCTGATG	3180
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	T	G	A	T	A	G	3120
60	T	G	T	G	T	G	3180
	G	G	C	C	T	T	3240
	T	G	A	G	C	T	3300
	A	G	G	C	T	G	3360
	A	G	C	T	G	T	3420
65	C	T	G	T	G	T	3480
	T	T	A	T	G	C	3540
	T	A	A	C	G	G	3600
	O	G	T	G	A	G	3660
	A	G	A	C	A	G	3720
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	C	T	A	A	G	A	3840
	C	C	T	C	T	C	3900
	G	T	G	A	T	G	3960
	T	G	T	C	A	G	4020
75	T	T	G	G	A	G	4080
	T	T	G	A	T	G	4140
	G	C	A	T	A	G	4200
	C	C	A	T	G	A	4260
	G	T	A	C	A	T	4320
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	T	T	G	C	C	G	4440
	T	C	T	C	C	T	4500
	C	C	C	T	C	A	4560
	G	T	T	C	C	G	4620
	A	T	T	C	A	T	4680

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	TTGCTGTACT AGAGATCTGG TTTTGTCTATT AGACTGTAGG AAGAGTAGCA TTTCACTCTT 4920
	CTCTAGCTGG TGGTTTCACG GTGCCAGGTT TTCTGGGTGT CCAAGGAAG ACGTGTGGCA 4980
	ATAGTGGGCC CTCGACAGC CCCCTCTGCC GCCTCCCCAC AGCCGCTCCA GGGGTGGCTG 5040
	GAGACGGGTG GGCAGCTGGA GACCATGCAG AGCGCCGTGA GTTCTCAGGG CTCTGCCTT 5100
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	TCCCAGTCCC TCAGGTTCTT ATGGCTGGCC ACTGCACAGA GCTCTCCAGC TCCAAGACCT 5340
	GTGGGTTCCA AGCCCTGGAG CCAACTGCTG CTTTTTGAGG TGGCACTTTT TCATTTCCTT 5400
	ATTCCACAC CTCACAGTT CAGTGGCAGG GCTCAGGATT TCGTGGGTCT GTTTTCCTTT 5460
15	CTACCCGAG TCGTCGACA GTCTCTCTCT CTCTCTCCCC TCAAAGTCTG CAACTTTAAG 5520
	CAGCTCTGC TAATCAGTGT CTCACACTGG CGTAGAAGTT TTTGTACTGT AAAGAGACCT 5580
	ACCTCAGGTT GCTGGTTGCT GTGTGGTTTG GTGTGTTCCC GCAAAACCCC TTTGTGCTGT 5640
	GGGGCTGGTA GCTCAGGTGG GCGTGGTCAC TGCTGTATC AGTTGAATGG TCAGCGTTGC 5700
	ATGTCGTGAC CAACTAGACA TTCTGTGCCC TTAGCATGTT TGCTGAACAC CTTGTGGAAG 5760
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	Nucleic Acid Accession #: NM_005562
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	GCTTCTCGCT CCTCTGCCCC GCAGCCCGGG CCACTCCAG GAGGGAAGTC TGTGATTGCA 180
	ATGGGAAGTC CAGGCAGTGT ATCTTTGATC GGGAACTTCA CAGACAACT GGTAAATGGAT 240
	TCCGCTGCCT CAACTGCAAT GACAACACTG ATGGCATTCA CTGCGAGAAG TGCAAGAAATG 300
	GCTTTTACCG GCACAGAGAA AGGGACCGCT GTTTGCCCTG CAATTGTAAC TCCAAAGGTT 360
35	CTCTTAGTGC TCGATGTGAC AACTCTGGAC GGTGCAGCTG TAAACCAAGT GTGACAGGAG 420
	CCAGATGCGA CCGATGTCTG CCAGGCTTCC ACATGCTCAC GGATGCGGGG TGCAACCAAG 480
	ACCAGAGACT GCTAGACTCC AAGTGTGACT GTGACCCAGC TGGCATCGCA GGGCCCTGTG 540
	ACGCGGGCGG CTGTGTCTGC AAGCCAGCTG TTAAGTGGAG ACCTGTGTAT AGTGTGTGAT 600
	CAGGTACTTA TAATCTGGAT GGGGGGAACC CTGAGGGCTG TACCCAGTGT TTCTGCTATG 660
40	GGCATTGAGC CAGCTGCCCG AGCTCTGCAG AATACAGTGT CCATAGATC ACCTCTACAT 720
	TTCAATCAAA TGTGTAGTGC TGGAAAGCTG TCCAACGAAA TGGGTCTCCT CCAAGCTTCC 780
	AATGTTCAAA GCGCCATCAA GATGTGTTTA GCTCAGCCCA ACGACTAGAC CCTGTCTATT 840
	TTGTGGCTCC TGCCAAATTT CTGGGAATC AACAGGTGAG CTATGGGCAA AGCCTGTCTT 900
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	TGAGTTACTT TGAGTTATGA AGGTACTTGC GGAATCTCAC AGCCCTCCGC ATCCGAGCTA 1140
	CATATGGAGA ATACAGTACT GGGTACATTG ACAATGTGAC CCTGATTCCA GCCCGCCCTG 1200
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50	AATTCTGCCA GGATTGTGCT TCTGGCTACA AGAGAGATTG AGCGAGACTG GGGCCTTTTG 1320
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	GTATTCTGAG GCATGAGAAT CCTGACATTG AGTGTGCTGA CTGCCCAATT GGTTCCTACA 1440
	ACGATTCGCA CGACCCCGCG AGCTGCAAGC CATGTCCCCTG TCATAACGGG TTCAGCTGCT 1500
	CAGTATGCC GAGACCGGAG GAGGTGGTGT GCAATAACTG CCCTCCCGGG CTCACCGGTG 1560
55	CCCGCTGTGA GCTCTGTGCT GATGGCTACT TTGGGGACCC CTTTGGTGAA CATGGCCAG 1620
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	GTGACCGGCT GACAGGCGAG TGTTTGAAGT GTATCCACAA CACAGCCGGC ATCTACTGGG 1740
	ACCAGTGCAG AGCAGGCTAC TTCCGGGACC CATTTGGCTCC CAACCCAGCA GACAAGTGTG 1800
	GAGCTTGCAA CTGTAAACCC ATGGGCTCAG AGCCTGTAGG ATGTGGAAGT GATGGCACCT 1860
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	AGGCCCTGAT TTCAAAGGCT CAGGGTGGTG ATGGAGTAGT ACCTGATACA GAGCTGGAAG 2040
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65	ACCAGAGCCG CTTGGATGAC CTCAGATGA CTGTGGAAG AGTTCCGGCT CTGGGAAGTC 2220
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	CAGAAAGTGA AGCTTCTTGG GGAACACTA ACATTCTGTC CTCAGACCAC TACGTGGGGC 2340
	CAAAATGGCTT TAAAGTCTG GCTCAGGAG CCACAAGATT AGCAGAAAGC CAGCTTGAGT 2400
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70	CACTGGTGGC CAGGCCCTG CATGAAGGAG TCGGAAGGG AAGCGGTAGC CCGGACGGTG 2520
	CTGTGGTGCA AGGGCTTGTG GAAAAATTGG AGAAAACCAA GTCCCTGGCC CAGCAGTTGA 2580
	CAAGGGAGGC CACTCAAGCG GAAATTGAAG CAGATAGGTC TTATCAGCAC AGTCTCCGCC 2640
	TCCTGGATTC AGTGTCTCGG CTTGAGGAG TCAGTGATCA GTCCCTTCAG GTGGAAGAAG 2700
	CAAAAGGAGT CAAACAAAAA GCGGATTAC TCTCAACGCT GGTAAACAGG CATATGGATG 2760
75	AGTTCAAGCG TACACAAAAG AATCTGGGAA ACTGGAAGA AGAAGCACAG CAGCTCTTAC 2820
	AGAATGGAAG AAGTGGGAGA GAGAAATCAG ATCAGCTGCT TTCCCGTGCC AATCTTGCTA 2880
	AAAGCAGAGC ACAAGAGAGA CTGAGTATGG GCAATGCCAC TTTTATGAA GTTGAGAGCA 2940
	TCCTTAAAAA CCTCAGAGAG TTTGACCTGC AGGTGGACAA CAGAAAAGCA GAAGCTGAAG 3000
	AAGCATTGAA GAGACTCTCC TACATCAGCC AGAAGGTTTC AGATGCCAGT GACAAGACCC 3060
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	CCGGGGAGGC CTTGGAATTC TCCAGTGAGA TTGAACAGGA GATTGGGAGT CTGAACCTTG 3180
	AAGCCAAATG GAGCAGAGAT GGAGCCTTGG CCAATGGAAG GGGACTGGCC TCTCTGAAGA 3240
	GTGAGATGAG GGAAGTGGAA GGAGAGCTGG AAAGGAAGGA GCTGGAGTTT GACACGAATA 3300
	TGGATGAGT ACAGATGGTG ATTACAGAAG CCCAGAAGGT TGATACCAGA GCCAAGAAGC 3360
	CTGGGGTTAC AATCCAAGAC AACTCAACA CATTAGACGG CCTCTGCTAT CTGATGAGAC 3420

5	AGCCTCTCAG	TGTAGATGAA	GAGGGGCTGG	TCTTACTGGA	GCAGAAGCTT	TCCCAGAGCCA	3480
	AGACCCAGAT	CAACAGCCAA	CTGCGGCCCA	TGATGTCAGA	GCTGGAAGAG	AGGGCAGCTC	3540
	AGCAGAGGGG	CCACCTCCAT	TTGCTGGAGA	CAAGCATAGA	TGGGATTCTG	GCTGATGTGA	3600
	AGAACTTGGA	GAACATTAGG	GACAACTGCG	CCCCAGGCTG	CTACAATACC	CAGGCTCTTG	3660
	AGCAACAGTG	AAGCTGCCAT	AAATATTCTT	CAACTGAGGT	TCTTGGGATA	CAGATCTCAG	3720
	GGCTCGGGAG	CCATGTCATG	TGAGTGGGTG	GGATGGGGAC	ATTTGAACAT	GTTTAATGGG	3780
	TATGCTCAGG	TCAACTGACC	TGACCCCAT	CCTGATCCCA	TGGCCAGGTG	GTGTCTTAT	3840
	TGCACCATAC	TCCTTGCTTC	CTGATGCTGG	GCAATGAGGC	AGATAGCACT	GGGTGTGAGA	3900
10	ATGATCAAGG	ATCTGGACCC	CAAAGAATAG	ACTGGATGGA	AAGACAACT	GCACAGGCAG	3960
	ATGTTTGCTT	CATAATAGTC	GTAAGTGGAG	TCCTGGAATT	TGGACAAGTG	CTGTTGGGAT	4020
	ATAGTCAACT	TATCTTTTGA	GTAATGTGAC	TAAAGGAAAA	AACCTTGACT	TTGCCCAGGC	4080
	ATGAAATTTCT	TCCTAATGTC	AGAACAGAGT	GCAACCCAGT	CACACTGTGG	CCAGTAAAAAT	4140
	ACTATTGCTT	CATATTGTCC	TCTGCAAGCT	TCTTGCTGAT	CAGAGTTCCCT	CCTACTTACA	4200
15	ACCCAGGGTG	TGAACATGTT	CTCCATTTTC	AAGCTGGAAG	AAGTGAGCAG	TGTTGGAGTG	4260
	AGGACCTGTA	AGGCAGGCC	ATTGAGAGCT	ATGGTGCTTG	CTGGTGCCCTG	CCACCTTCAA	4320
	GTTCTGGGAC	TGGGTCATGAC	ATCCTTTCTT	TTAATGATGC	CATGGCAACT	TAGAGATTGC	4380
	ATTTTATATTA	AAGCATTTC	TACCAGCAAA	GCAAAATGTTG	GGAAAGTATT	TACTTTTTCG	4440
	GTTTCAAGT	GATAGAAAAG	TGTGGCTTGG	GCATTGAAAG	AGGTAAAAAT	CTTAGATT	4500
20	ATTAGTCTTA	ATTCAATCCT	ACTTTTCGAA	CACCAAAAAT	GATGCGCATC	AATGTATTTT	4560
	ATCTTATTTT	CTCAATCTCC	TCTCTCTTTC	CTCCACCCAT	AATAAGAGAA	TGTTCTTACT	4620
	CACACTTCAG	TGCGGTGACA	TCCATCCCTC	CATTCTCCCT	TCCATCCATC	TTTCCATCCA	4680
	TTACCTCCAT	CCATCCTTCC	AACATATATT	TATTGAGTAC	CTACTGTGTG	CCAGGGGCTG	4740
	GTTGGACAGT	GCTGACATAG	TCTCTGCCCT	CATAGAGTTG	ATTGCTTAGT	GAGGAAGACA	4800
25	AGCATTTTAA	AAAAATAAAT	TTAAACTTAC	AACTTTGTTT	TGTCACAAGT	GGTGTATTAT	4860
	GCAATAACCG	CTTGGTTTGC	AACTCTTTTG	CTCAACAGAA	CATATGTTGC	AAGACCCCTCC	4920
	CATGGGGGCA	CTGAGTTTTT	GGCAAGGCTG	ACAGAGCTCT	GGGTTGTGCA	CAITTTCTTG	4980
	CATTCCAGCT	GTCACCTGCT	GCCTTTCTAC	AACTGATTGC	AACAGACTGT	TGAGTTATGA	5040
	TAAACACAGT	GGGAATTGCT	GGAGGAACCA	GAGGCACCTC	CACCTTGGCT	GGGAAGACTA	5100
30	TGGTGCTGCC	TTGCTTCTGT	ATTTCTCTGG	ATTTCTCTGA	AAGTGTTTTT	AAATAAGAA	5160
	CAATTGTTAG	ATGCC					5175

Seq ID NO: C107 DNA Sequence
Nucleic Acid Accession #: NM_021101
Coding sequence: 221..856

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40	CGCCCGCCCC	GGCGCGGACC	CCAACCCCGA	CCCAGAGCTT	CTCCAGCGGC	GGCGCAGCGA	120
	GCGAGGCTCC	CGGCCTTAAC	TTCTCCCGCG	GGGCCAGGCC	ACCTTCGGGA	GTCCGGGTTG	180
	CCACCTTGCA	AACTCTCCGC	CTCTGCAACC	TGCCACCCCT	GAGCCAGCGC	GGCGGCCCGA	240
	GCGAGTCATG	GCCAAACGGG	GGCTGCAGCT	GTGGGCTTC	ATTCTCGCTC	TCTTGGGATG	300
	GATCGGGCC	ATCGTCAGCA	CTGCCCTGCC	CCAGTGGAGG	ATTACTCTCT	ATGCCGSCGA	360
45	CAACATCGTG	ACCGCCGAGG	CCATGTACGA	GGGCTGTGG	ATGTCTCTGG	TGTGCGAGAG	420
	CACCGGGGAG	ATCCAGTGCA	AAGTCTTTGA	CTCCTTGCTG	AATCTGAGCA	GCACATTGCA	480
	AGCAACCCGT	GCCTTGATGG	TGGTTGGCAT	CCTCCTGGGA	GTGATAGCAA	TCTTTGTGGC	540
	CACCGTTGGC	ATGAAGTGTA	TGAAGTGCTT	GGAAGACGAT	GAGGTGCAGA	AGATGAGGAT	600
	GGCTGTCAAT	GGGGGCGCGA	TATTTCTTCT	TGCAGTCTG	GCTATTTTAG	TTGCCACAGC	660
50	ATGGTATGGC	AATAGAATCG	TTCAAGAATT	CTATGACCCCT	ATGACCCCGAG	TCAATGCCAG	720
	GTACGAATTT	GGTCAGGCTC	TCTTCACTGG	CTGGGCTGCT	GCTTCTCTCT	GCCTTCTGGG	780
	AGGTGCCCTA	CTTTGCTGTT	CCTGTCCCGG	AAAAACAACC	TCTTACCCTA	CAACCAAGGCC	840
	CTATCCAAAA	CCTGCACCTT	CCAGCGGGAA	AGACTACGTG	TGACACAGAG	GCAAAAGGAG	900
	AAAAATCATGT	TGAACAACAC	CGAAAATGGA	CATTGAGATA	CTATCATTTA	CATTAGGACC	960
55	TTAGAATTTT	GGGTATTGTA	ATCTAAAGTA	TGTTATTACA	AAACAAACAA	ACAAACAAAA	1020
	AACCCATGAT	TTAAATTAAT	CAGTGCTAAA	CATGGCTTAA	TCTTATTTTA	TCTTCTTTCC	1080
	TCAATATAGG	AGGGAAGATT	TTTCCATTTG	TATTACTGCT	TCCCATTGAG	TAATCATACT	1140
	CAAAATGGGG	AAGGGGTGCT	CCTTAAATAT	ATATAGATAT	GTATATATAC	ATGTTTTTCT	1200
	ATTAATAATA	GCCAGTAAAA	AAAAAATAAA	AAAAAAA			1237

Seq ID NO: C108 DNA Sequence
Nucleic Acid Accession #: AF508964.1
Coding sequence: 98..1531

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	TGGACCCGCC	ATGGCGCGGC	CTGGGGGCTT	CTGCTGGCTG	GTTGTGGGCT	TCTGGAGGGC	180
70	CGCTTTCCGC	TGTCGCCAGT	CCTGCAATG	CAGTGCTCT	CGGATCTGGT	GCAGCGACCC	240
	TTCTCCTGGC	ATCGTGGCAT	TTCCGAGATT	GGAGCCTAAC	AGTGTAGATC	CTGAGAACAT	300
	CACCGAAATT	TTCAATCGCA	ACCAGAAAAG	GTTAGAAATC	ATCAACGAAG	ATGATGTTGA	360
	AGCTTATGTG	GGACTGAGAA	ATCTGACAA	TGTGGATTCT	GGATTAAAT	TTGTGGCTCA	420
	TAAAGCAATT	CTGAAAACCA	GCAACCTGCA	GCACATCAAT	TTTACCCGAA	ACAACTGAC	480
75	GAGTTTGCT	AGGAAACATT	TCCGTACCTT	TGACTTGCT	GAACCTGATC	TGGTGGGCAA	540
	TCCATTTACA	TGCTCCTGTG	ACATTATGTG	GATCAAGACT	CTCCAAGAGG	CTAAATCCAG	600
	TCCAGACACT	CAGGATTTGT	ACTGCCTGAA	TGAAAGCAGC	AAGAAATATC	CCCTGGCAAA	660
	CCTGCAGATA	CCCAATTGTG	GTTTGCATC	TGCAAACTCT	GCGCACCTTA	ACCTCACTGT	720
	GGAGGAAGGA	AAGTCTATCA	CATTATCCTG	TAGTGTGGCA	GGTGATCCGG	TTCCTAATAT	780
80	GTATTGGGAT	GTTGGTAACC	TGGTTTCCAA	ACATATGAAT	GAAACAAGCC	ACACACAGGG	840
	CTCCTTAAGG	ATAACTAACA	TTTCATCCGA	TGACAGTGGG	AAGCAGATCT	CTTGTGTGGC	900
	GGAAATCTT	TGAGGAGAAG	ATCAAGATTG	TGTCAACCTC	ACTGTGCATT	TTGCACCAAC	960
	TATCACTATT	CTGAAATCTC	CAACCTCAGA	CCACCACTGG	TGCATTCCAT	TCACTGTGAA	1020
	AGGCAACCCC	AAACACGCGC	TTCACTGGTT	CTATAACGGG	GCAATATTGA	ATGAGTCCAA	1080
	ATACATCTGT	ACTAAATATC	ATGTTACCAA	TCACACGGAG	TACCACGGCT	GCCTCCAGCT	1140

	GGATAATCCC	ACTCAGATGA	ACAATGGGGA	CTACACTCTA	ATAGCCAAGA	ATGAGTATGG	1200
	GAAGGATGAG	AAACAGATTT	CTGCTCACTT	CATGGGCTGG	CCTGGAATTG	ACGATGGTGC	1260
	AAACCCAAAT	TATCCTGATG	TAAITTTATGA	AGATTATGGA	ACTGCAGCGA	ATGACATCGG	1320
5	GGACACCAGC	AACAGAAGTA	ATGAAATCCC	TTCCACAGAC	GTCACCTGATA	AAACCGGTGC	1380
	GGAAATCTCT	TCGGTCTATG	CTGTGGTGGT	GATTGCGTCT	GTGGTGGGAT	TTTGCCCTTT	1440
	GGTAATGCTG	TTTCTGCTTA	AGTTGGCAAG	ACACTCCAAG	TTTGGCATGA	AAGGTTTTGT	1500
	TTTGTTCAT	AAGATCCCAC	TGGATGGGTA	GCTGAAATAA	AGGAAAAGAC	AGAGAAAAGG	1560
	GCTGTGGTGC	TTGTTGGTTG	ATGCTGCCAT	GTAAGCTGGA	CTCCTGGGAC	TGCTGTTGGC	1620
10	TTATCCCGGG	AAGTGTGCT	TATCTGGGT	TTTCTGGTAG	ATGTGGGCGG	TGTTTGGAGG	1680
	CTGTACTATA	TGAAGCCTGC	ATATACTGTG	AGCTGTGATT	GGGGAACACC	AATGCAGAGG	1740
	TAACCTCTAG	GCAGCTAAGC	AGCACCTCAA	GAACATGT	TAAATTAATG	CTTCTCTTCT	1800
	TACAGTAGTT	CAAAATACAA	ACTGAAATGA	AATCCCATTG	GATTGTACTT	CTCTCTGAA	1860
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15	TGACCTGCAA	AGTTAAAAAA	AAATTAAAGT	TGAGAACAGG	TATAAGTGCA	CACTGAATAG	1980
	TCTAATCTAC	ATGTAAACAA	TATTTTAGTA	TGATTTTCTA	TACTCTAATC	AGCACTGAAT	2040
	TCAGAGGGTT	TTTCTTTTTT	ATCTATAACA	CAGTGACTAA	AAGAGTTAAG	GGTATATATA	2100
	CCATCACTTT	GGGACTTGGT	AGTATTATTA	AAAGGTTATT	TCCTTCACTG	TCAATAAAAG	2160
	TCCAAATGTT	ATGCTTAGGT	CTGAGAGTCA	AACAATGTTA	AGGATTGTCT	TAAAGTTCTT	2220
20	TAGCCAGCAA	AACAAAACAA	AACAAAACAA	ACAAATGAAA	AACGTTTAAA	AAGAAGAAGA	2280
	AGAAAAAA	CAAGAACAG	CAGCAACAGC	TGTTTTGTG	GGGCTATAGA	TTTAAGTTAG	2340
	GCATAGCTAG	TTTCTAGATA	ACTAAGAGTG	GAATATATGC	ATATGGTGAA	ATTATAACCT	2400
	TGCCCTTTTT	TATTTGCCCT	CTGCGATCCA	CCTGGCTTTT	TAGAAGTCTG	CCGAGTGAGA	2460
	AGGCCACAGT	ATCTCATGCT	GTTTGCATTA	CAGAACTGCA	GCTTTTCTAC	TCTGAAAAGG	2520
25	CCTGGGAGAG	GAATGGCTGG	CCTGCTGTGA	GCAGGAGAGG	AGATTCTAAG	AAGGATAGTC	2580
	CCCCCTACAA	CATACTGTCA	TACTGCTGGG	TTTTCATGGG	TAGGAAAGCT	TGTCCTGACC	2640
	CCAGCAGCAA	AGAGGTGGCA	GGTCGCTAAT	GAATATATGC	TTTATAATGT	CCTTCTTCAT	2700
	TGCTGAGAGG	GCAGCCTTAG	AGCTGTGGAT	TTCTGCATCC	CCCCGTAGTC	TGACCCATGG	2760
	ACACCTGTTT	CTTCACTTTT	AGCATCACAG	TGACCTTTGT	ATGCTCTGTT	CAGTCTGTGT	2820
30	CAGGCAGTAT	GCTTGTCTGT	AAGAGAGGTT	TGGCTATCCC	CCACCCACC	CACCCACCTT	2880
	GTTCTTTTTT	TATCAGGAGG	ACTTCAGAGC	CAGGCCTGCA	GCATTTTGTT	TGAAAACACA	2940
	ATCAGCTCTG	ACAGTTAGAC	ATGCACACAG	ACGCCATAGC	TGGATTGGAA	ACATTGATGT	3000
	TTTAAAAATT	TATTTTTTTT	GGAAATAGTT	GCACAAATGC	TGCAATTTAG	CTTTAAGGTT	3060
	CTATAGATT	TTAATCATGT	CAACACAGTC	AGAAACATTG	TTTTGAATCC	TCTGTAACCC	3120
35	AAGGCATTAA	TCTTAATAAA	CCAGGATCCA	TTTAGGTACC	ACTTGATATA	AAAAGSATAT	3180
	CCATAATGAA	TATTTTATAC	TGCACTCTTT	ACATTAGCCA	CTAATAACGT	TATTTGCTGA	3240
	TGAAGACCTT	CACAGAAATC	CTATGGATTG	CAGCATTTCA	CTTGGCTACT	TCATACCCAT	3300
	CCCTTAAGCA	GGGGCAGTTT	CTCAAAAGCA	GAACATGCC	GCCAGTTCTC	AAGTTTTCCT	3360
	CCTAATCTGA	TTTGAATGTA	AGGGCAGCTG	GCCCCAATG	TGGGGAGGTC	CGAACATTTT	3420
40	CTGAATTCCT	ATTTTCTTGT	TCGGGGCTAA	ATGACAGTTT	CTGTCAATAC	TTAGATTCCG	3480
	ATCTTTCCCA	AAGGTGTTGA	TTTACAAGA	GGCCAGCTAA	TAGCAGAAAT	CATGACCTTG	3540
	AAAGAGAGAT	GAATTTCAAG	CTGTGAGCCA	GGCAGGAGCT	CAGTATGGCA	AAGGTTCTTG	3600
	AGAATCAGCC	ATTTGGTACA	AAAAAGATT	TTAAGCTTTT	TATGTTATAC	CATGGAGCCA	3660
	TAGAAAGGCT	ATGGATTGTT	TAAGAACTAT	TTTAAAGTGT	TCCAGACCCA	AAAAGGAAAA	3720
45	ATAAAAAAAA	AGGAATATTT	GTACCCAACA	GCTAGAAGGA	TTGCAAGGTA	GATTTTTGTT	3780
	TTAAAAATGA	GAGAAAGTGA	CAGATAAGGC	CATTTAATAT	ATCAAAGATC	AGTTGACATC	3840
	TCATGGGAAT	GATGAAACAG	CAGGCTATTA	GAATAATTAT	TCATATAGTT	CTCGTGTCTT	3900
	TTTCTTTTTT	TTAATCCCTG	AAGGGAGATC	AGTAACATAG	CTTCTCTTTT	CTGTACTCTA	3960
	GACCAACCTT	TTTCTATTT	TTGCTTTTTA	TGCTCCCCAT	AAGAAATGTG	CTTTTTAGAG	4020
50	CTTCTTAATG	CATGTGTTGC	ATTATTGTC	CATTAGAAAA	GGAGAGGTAG	CATTTTTGCT	4080
	GAATTCGGGC	CTGTCACTCT	CCAATAAAGG	TTCTGGCACT	TCAATGCCAG	GCAGGTCTCC	4140
	TAAATGAACA	GAATGATCTG	TGTGAGCCGA	TGCCCTGCCCT	TCCAGAGGGG	CCACTGTCTCC	4200
	CAGCCGACAG	CACCTGTGTC	CCACAGGAAT	GGGAGCCTAG	GTTTCCAAAT	CTTGTGATT	4260
	TTTAGGAGAA	ACATGAAACC	TGGATTTCGT	GTGAAATGTC	CCGATTGTTA	AAAAGTTGGC	4320
55	TCAATTATTT	TTAAACACTT	TTGTAAGCCA	ACAAAAGTCT	GTGGGCTGCC	AGTTTATTAC	4380
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Coding sequence: 1..1746

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35 Seq ID NO: C112 DNA Sequence
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Coding sequence: 77..1372

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Seq ID NO: C113 DNA Sequence
Nucleic Acid Accession #: XM_087254.1
Coding sequence: 47..2332

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Seq ID NO: C114 DNA Sequence

Nucleic Acid Accession #: XM_087461.1

Coding sequence: 236..1138

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Seq ID NO: C115 DNA Sequence

Nucleic Acid Accession #: XM_051522.4

Coding sequence: 127..1215

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Seq ID NO: C116 DNA Sequence
Nucleic Acid Accession #: NM_000350.1
Coding sequence: 82..6903

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Nucleic Acid Accession #: NM_006671.2
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 GTAACAATCA CAACAACAT GCATTCTGAA GCAAGAAAGG GATCAAAATT TGATCTGCGG 660
 AGCTTTGTTG GTGGTATTGT ATTAACGCTG GGAGTTTAT CTATTCTTTA CATGGGATGC 720
 AAAATGTATT ACTCAAGAGG AGGCATTGCG TATCGAAGCA TAGATGAACA TGATGCCATC 780
 55 ATTTAAGGAA ATTCATGGAC CAAGGATGGA ATACAGATTG ATGCTGCCCT ATCAATTAAT 840
 TTTGTTTAT TAATAGTTTA AAACAATATT CTCTTTTGA AATAGTATA AACAGGCCAT 900
 GCATATAATG TACAGTGTAT TACGTAAATA TGTAAAGATT CTCAAGGTA ACAAGGGTTT 960
 GGGTTTGAAG ATAAACATCT GGATCTTATA GACCGTTTAT ACAATGGTTT TAGCAAGTTT 1020
 ATAGTAAGAC AAACAAGTCC TATCTTTTTC TTTTGGCTG GGGTGGGGGC ATTGGTCACA 1080
 TATGACCAAT AATTGAAAGA CGTCATCACT GAAAGACAGA ATGCCATCTG GGCATACAAA 1140
 60 TAAGAAGTTT GTCACAGCAC TCAGGATTTT GGGTATCTTT TGTAGCTCAC ATAAAGAACT 1200
 TCAGTGTCTT TCAGAGCTGG ATATATCTTA ATTACTAATG CCACACAGAA ATTATACAAT 1260
 CAAACTAGAT CTGAAGCATA ATTTAAGAAA AACATCAACA TTTTGTGTC TTTAAACTGT 1320
 AGTAGTGGT CTAGAAACAA AATACTCCAA GAAAAAGAAA ATTTTCAAT AAAACCCCAA 1380
 ATAATAGCTT TGCTTAGCCC TGTTAGGGAT CCATTGGAGC ATTAAGGAGC ACATATTTT 1440
 65 ATTAACCTCT TTTGAGCTTT CAATGTTGAT GATAATTTTG TTCTCTGTGT AATTAGGTA 1500
 AACTGCAGTG TTTAACATAA TAATGTTTTA AAGACTTAGT TGTCAATAT AATAATCTCT 1560
 GGCATTATAG GGAAGAAACC TCCTAGAAGT TAGATTATTT GCTACTGTGA GAATATTGTC 1620
 ACCACTGGAA GTTACTTTAG TTCAATTAAT TTTAATTTTA TATTTGTGA ATATTTTAAG 1680
 70 AACTGTAGAG CTGCTTCAAA TATCTAGAAA TTTTAAATG AGTGTAAACA CACTAACTT 1740
 TAAGAAAAGG AACCGCTGTG ATGATTTTCA AAAGAACATT TAGAATCTTA TAGAGTCAAA 1800
 ACTATAGCGT AATGCTGTGT TTATTAAGCC AGGGATTGTG GGAATTCCTC CAGGCAACTA 1860
 AACCTGCAGG ATGAAAATGC TATATTTTCT TTCATGCACT GTCGATATTA CTCAGATTG 1920
 GGGAAATGAC ATTTTATATC TAAACAAAC ACCAAATAT TTTAGAATAA ATTCTTAGAA 1980
 AGTTTGTAGA GGAATTTTTC GAGAGGACAT TTCTCTCTC CTGATTGGGA TATTCCTCA 2040
 75 AATCCCTCCT CTACTCCAT GCTGAAGSAG AAGTACTCTC AGATGCAITA TGTTAATGGA 2100
 GAGAAAAAGC ACAGTATTGT AGAGACACCA ATATTAGCTA ATGATTTTGT GAGTGTTTTC 2160
 CATTTTACAG TTTTATTTCC AGCACTCAAA ACTCAGGGTC AAGTTTAAAC AAAAGAGGTA 2220
 TGTAGTCACA GTAAATACTA AGATGGCATT TCTATCTCAG AGGGCCAAAG TGAATCACAC 2280
 CAGTTTCTGA AGTGTCTAAA AATAGCTCAG ATGTCCTAAT GAACATGCAC CTCACATTAA 2340
 80 TAGGAGTACA ATAAACTGTG TGTGAGCTTT TGTTTTACAG AGAACGCTAG ATATTAGAA 2400
 TTTTGAATGT GATCATTTCT ACTTGTCTGT CATTTTAACC AATAATCTGA TGAATATAGA 2460
 AAAAATATGT CAAAATATGT GATATGATTG GATGTATGTA ACACATACAT GGAGTATGGA 2520
 GGAAATTTTC TGAATAATAC ATTTAGATTA GTTTAGTTTG AAGGAGAGGT GGGCTGATGG 2580
 CTGAGTTGTA GTTTACTAAC TTGGCCCTGA CTGGTGTGTC AACCAATGCT TCATTTCTTT 2640
 GCAAAATGTA GTTAAGATAT ACTTTATTCT AATGAAGGCC TTTTAAATTT GTCCACTGCA 2700

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TTCTTGGTAT TTCACTACT CAAGTCAGTC AGAACTTCGT AGACCGACCT GAAGTTTCTT 2760
 TTTGAATACT TGTTCCTTTA GCACITTTGAA GATAGAAAAA CCACITTTTA AGTACTAAGT 2820
 CATCATTTGC CTTGAAAGTT TCCTCTGCAT TGGGTTTGAA GTAGTTTAGT TATGTCITTT 2880
 TCTCTGTATG TAAGTAGTAT AATTGTGTAC TTTCAAATAC CCGTACTTTG AATGTAGGTT 2940
 TTTTGTGTGT TGTATCTAT AAAAATTTAG GGAATTTGGT ATGCAAAAAA ATATTTTGTCT 3000
 TTGGACCATTA TTCTTAAGC ATAAAAAAT GCTCAGTTT GCTTGCAATC CTTGAGAATG 3060
 TATTTATCTG AAGATCAAAA CAAACAATCC AGATGTATAA GTACTAGGCA GAAGCCAAT 3120
 TTAATAATTC CTGTAATAAT CCATGAAAGG AATAATTCAA ATACAGATAA ACAGAGTTGG 3180
 CAGTATATTA TAGTGATAAT TTTGTATTTT CAAMAAAAA AAAGTTAAAC TCTTCTTTTC 3240
 TTTTATATAT AATGACCAAG TTTTGTATT TCATTGTTAC CAAGTTCTAT TTTTAGATAA 3300
 AATTGTTCTC TTCTTAAAAA AAAAAA AAAAAA 3338

Seq ID NO: C121 DNA Sequence

Nucleic Acid Accession #: NM_004195

Coding sequence: 1..726

1 11 21 31 41 51
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 ATGGCACAGC ACGGGGCGAT GGGCGCGTTT CGGGCCCTGT CGGGCCCTGG GCTGCTGTGC 60
 GCGCTCAGCG TGGGTTCAGC CCCACCGGG GGTCCCGGGT GCGGCCCTGG GCGCCTCCTG 120
 CTGGGACGCG GAACGGACGC GCGCTGCTGC CGGGTTTACA CGACGCGCTG CTGCCGCGAT 180
 TACCGGGGCG AGAGTGTCTG TTCCGAGTGG GACTGCATGT GTGTCCAGCC TGAATCCAC 240
 TGGGAGAGCC CTGTCTGCAC GACCTGCGCG CACCACCTTT GTCCCCCAGG CCAGGGGGTA 300
 CAGTCCCAGG GGAATTCAG TTTTGGCTTC CAGTGTATCG ACTGTGCCTT GGGGACCTTC 360
 TCGGGGGGCC AGCAAGGCCA CTGCAAACTT TGGACAGACT GCACCCAGTT CGGGTTTCTC 420
 ACTGTGTTCG CTGGGAACAA GACCCACAAC GCTGTGTGCG TCCAGGGGTC CCGGCGGCA 480
 GAGCGCTTGG GTTGTCTGAC CGTGTCTCTC CTGGCGGTGG CGGCTGCGT CCTCTCTCTG 540
 ACCTCGGCCC AGCTTGGACT GCACATCTGG CAGCTGAGGA GTCACTGCAT GTGGCCCGGA 600
 GAGACCCAGC TGCTGCTGGA GGTGCCGCGC TCGACCGAAG ACGCCAGAAG CTGCCAGTTT 660
 CCGAGGGAAG AGCGGGGCGA GCGATCGGCA GAGGAGAAGG GCGGGCTGGG AGACCTGTGG 720
 GTGTGA 726

Seq ID NO: C122 DNA Sequence

Nucleic Acid Accession #: AK091896.1

Coding sequence: 28..1572

1 11 21 31 41 51
 | | | | |
 AGATCCGCGA GCGGCTCAGC CTGCGCCATG GGCTGCGAGC GCGCGGTGTC GGGGCTGCTC 60
 CGCCGCAACC TGCAGCCAC GCTCACCTAC TGGAGCGTCT TCTTCAGCTT CGGCTGTGTC 120
 ATCGCCTTCC TGGGGCCAC GCTGCTGGAC CTGCGCTGTC AGAGCGACAG CTGCTGCCCC 180
 CAGATCTCTT GGGTCTTCTT CTGCGAGCAG CTCTGCTCTC TGCTGGGCGG CGCCCTCGGG 240
 GGGTCTTCTA AAGGACCCCT GGGCCAGTCA CTATGGGCCC TGTTACCTTC CTCTCTGGCC 300
 ATCTCCCTGG TGTGTCCCTT CATCCCTTTC TGCAGGAGCT TGAAGGTGCT GGCCTCAGTC 360
 ATGGGCGTGG CGGGCTTGGC CATGGGCTGC ATCGACACCG TGGCCAACAT GCAGCTGGTA 420
 AGGATGTACC AGAAGGACTC GGGCGTCTTC CTCCAGGTGC TCCATTCTTT CGTGGGCTTT 480
 GGTGTCTTGC TGAGCCCCCT TATGTCTGAC CCTTCTCTGT CTGAGGCCAA CTGCTTGCC 540
 GCCAATAGCA CGGCCAACAC CACCTCCGCA GGGCACCTGT TCCATGTCTC CAGGGTGCTG 600
 GGCAGACACC AGCTAGATGC CAAGCCTTGG TCCAAACAGA CGTTCACAGG GCTGACTCCA 660
 AAGGAGCGGG CAGGACCCCG AGTGTCTCTT GCCTTCTGGA TCATGGCCCT CATGATCTTT 720
 CCACTGCCCA TGGCTGTGCT GATGCTGCTG TCCAAGGAGC GGCTGCTGAC CTGCTGTCCC 780
 CAGAGGAGGC CCTGCTCTCT GTCTGTGAT GAGCTTGCTT TGGAGACACA GCCTCCTGAG 840
 AAGGAAGATG CCTCTCTACT GCGCCCAAAG TTTCACTCAC ACCTAGGCGA TGAGGACCTG 900
 TTCAGCTGCT GCCAAGGAGA GAACCTCAGA GGAGCCCTTT ATTCTTCTTT TGCCATCCAC 960
 ATCAGCGGGG CCTGTGTACT GTTCATGACG GATGGGTGTA CGGGTGCTTA TTCGSCCTTC 1020
 GTGTACAGCT ATGCTGTGGA GAAGCCCTCG TCTGTGGGAC ACAAGGTGGC TGGCTACCTC 1080
 CCCAGCCTCT TCTGGGGCTT CATCACTAG GGCAGGCTCC TCTCCATTCC CATATCTCTA 1140
 AGAATGAAGC CGGCCACCAT GGTTTTCATC AACCTGGTTG GCGTGTGGGT GACGTTCTGT 1200
 GTGCTGCTTA TTTTCTCTTA CAAGTGTGTC TTCTGTGTCG TGGGGAAGGC AAGCCTGGGC 1260
 CTGTTTCTCA GCAGCACCTT CCCAGCATG CTGGCCTACA CGGAGGACTC GCTGCTGATC 1320
 AAAGGCTGTG CAACCAAGT GCTGGTGACA GGGGCGAGAG TTGGGAGAT GGTGCTGCA 1380
 ATGCTGGTTG GTTCGATATT CCAGGCTCAG GGCAGCTATA GTTTCTGGT CTGTGGGCTG 1440
 ATCTTGTGTT GTCTGGCTTT TACCTTCTAT ATCTGTCTCC TGTTTTCCA CAGGATGCAC 1500
 CCTGGACTCC CATCAGTTCC TACCAAGAC AGATCAATTG GAATGGAAAA CTCTGAGTGC 1560
 TACCAGAGGT AAACTGGGTG GAAGAAGGCA AGAGAAGACT TTCAGCCTCT TGATCACCAG 1620
 CACGACCATTA CTGTTTTCAGA AAGCTGGGTG GTGGTGGAGG CGCTCTCTCA ATGGCTATT 1680
 AAGTCTTCTC CACTAAATCT TGGTTGGGTA GAGGAAATTA AATTGAGTCC TGGTACCTGG 1740
 TCAAAATCAT TAGAAGTTTA CCTGGCTTCT CAAGTTATCT TCTTCCCTGG TTCAGACTGT 1800
 TGGTAAGAGC TGTCCAGATA CCCAGATGGG AAGGAAGGAG ACAGCCGCGC GCTTCACTCC 1860
 ATTTGTACCC TCATGCAATG ACCATACTCT GGGTTTGAGA TCATTCTTCA TTGAAGTTTG 1920
 TAAAAATAGG TTGAAATTGT AAAGCTCCAT GATCACTGCT ATATGTAGAT ATATTCAAT 1980
 TTAAGCAAAA CAAGCTGCAA GTTATTCCTT GGCATGCTCA AAGGATTTTC GTGCTTTTCA 2040
 CTTAATAGTC CAAGTCTCTT TAAATTCCTG CTGCAGATAT CAATAGCTTA TCTATATTCT 2100
 CAAACACCAA AAGGAAAGT TGAATCTTGC TCTCTTGGT ATACTAATGT AGTGGTATGC 2160
 TAAGCTGGCT CATACCAACT TAGAAAAGCT GATTGTAAAA TTTTCATTTT GACAGCTGGT 2220
 TATTAAGTC AGCCATTATT AAAAAACAA TCATACAAAC TTATAATTAA ATCAATTACA 2280
 TTTAAACAA AGGTAATAAA TATTCAAAGC ATATCACTTC CT 2322

Seq ID NO: C123 DNA Sequence

Nucleic Acid Accession #: NM_002203.2

Coding sequence: 43..3588

1 11 21 31 41 51
 | | | | |

	CTGCAAAACC	AGCGCAACTA	CGGTCCCCCG	GTGAGACCCA	GGATGGGGCC	AGAACGGACA	60
	GGGGCCGGCC	CGCTGCCGCT	GCTGCTGGTG	TTAGCGCTCA	GTCAAGGCGAT	TTTAAATTGT	120
	TGTTTGGCCT	ACAAATGTTGG	TCTCCAGAA	GCAAAAATAT	TTTCCGGTCC	TTCAAGTGAA	180
	CAGTTTGGGT	ATGCAGTGCA	GCAGTTTATA	AATCCAAAG	GCAACTGGTT	ACTGGTTGGT	240
5	TCACCCCTGGA	GTGGCTTTCC	TGAGAACCGA	ATGGGAGATG	TGTATAAATG	TCCTGTTGAC	300
	CTATCCACTG	CCACATGTGA	AAAACTAAAT	TTGCAAACTT	CAACAAGCAT	TCCAAATGTT	360
	ACTGAGATGA	AAACCAACAT	GAGCCTCGGC	TTGATCTCTCA	CCAGGAACAT	GGGAACTGGA	420
	GGTTTTCTCA	CATGTGGTCC	TCTGTGGGCA	CAGCAATGTG	GGAATCAGTA	TTACACAAAG	480
	GGTGTGTGTT	CTGACATCAG	TCTGTATTTT	CAGCTCTCAG	CCAGCTTCTC	ACCTGCAACT	540
10	CAGCCCTGCC	CTTCCCTCAT	AGATGTTGTG	GTGTGTGTGT	ATGAATCAAA	TAGTATTTAT	600
	CCITGGGATG	CAGTAAAGAA	TTTTTTGGAA	AAATTTGTAC	AAGGCCTTGA	TATAGGCCCC	660
	ACAAAGACAC	AGGTGGGGTT	AATTCAGTAT	GCCAATAATC	CAAGAGTTGT	GTTTAACTTG	720
	AACACATATA	AAACCAAGA	AGAAATGATT	GTAGCAACAT	CCCAGACATC	CCAATATGGT	780
15	GGGGACCTCA	CAAAACACAT	CGGAGCAATT	CAATATGCAA	GAATAATATG	CTATTGAGCA	840
	GCTTCTGGTG	GGCGACGAAG	TGCTACGAAA	GTAAATGGTAG	TTGTAACTGA	CGGTGAATTA	900
	CATGATGGTT	CAATGTTGAA	AGCTGTGATT	GATCAATGCA	ACCATGACAA	TATACTGAGG	960
	TTTGGCATAG	CAGTCTCTGG	GTACTTAAAC	AGAAACGCC	TTGATACTAA	AAATTTAATA	1020
	AAAGAAATAG	AAGCGATCGC	TAGTATTCCA	ACAGAAAGAT	ACTTTTTCAA	TGTGTCTGAT	1080
20	GAAGCAGCTC	TACTAGAAAA	GGCTGGGACA	TTAGGAGAAC	AAATTTTCAG	CATTGAAGGT	1140
	ACTGTTCAAG	GAGGAGACAA	CTTTGAGATG	GAAATGTCAC	AAGTGGGATT	CAGTGACAGT	1200
	TACTCTTCTC	AAATGATAT	TCTGATGCTG	GGTGCACTGG	GAGCTTTTGG	TGCGAGTGGG	1260
	ACCATGTGTC	AGAAGACATC	TCATGGCCAT	TTGATCTTTC	CTAAACAAGC	CTTTGACCAA	1320
	ATTCTGCAGG	ACAGAAATCA	CAGTTTATAT	TTAGTTTACT	CTGTGGCTGC	AATTTCTACT	1380
25	GGAGAAAGCA	CTCACTTTGT	TGCTGGTGTG	CCTCGGGCAA	ATTATACCGG	CCAGATAGTG	1440
	CTATATAGTG	TGAATGAGAA	TGGCAATATC	ACGGTTATTC	AGGCTCACCG	AGGTGACCCG	1500
	ATTGGCTCCT	AATTTGTTAG	TGTGCTGTGT	TCAGTTGATG	TGGATAAAGA	CACCATTTCA	1560
	GACGTGCTCT	TGGTAGGTGC	ACCAATGTAC	ATGAGTGACC	TAAAGAAAGA	GGAAGGAAGA	1620
	GTCTACTGTG	TACTATCAA	AAAGGGCATT	TTGGGTGAGC	ACCAATTTCT	TGAAGGCCCC	1680
30	GAGGGCATTG	AAAACACTCG	ATTTGGTTCA	GCAATTCGAG	CTCTTTTCAGA	CATCAACATG	1740
	GATGGCTTTA	ATGATGTGAT	TGTTGGTTCA	CCACTAGAAA	ATCAGAAATTC	TGGAGCTGTA	1800
	TACATTTTCA	ATGGTTCATCA	GGGCACATATC	CGCACAAAGT	ATTCCAGAAA	AATCTTGGGA	1860
	TCCGATGGAG	CCTTTAGGAG	CCATCTCCAG	TACTTTGGGA	GGTCTTGGGA	TGGCTATGGA	1920
	GATTTAAATG	GGGATTCAT	CACCGATGTG	TCTATTGGTG	CCTTTGGACA	AGTGGTTCAA	1980
35	CTCTGGTCAC	AAAGTATTGC	TGATGTAGCT	ATAGAAGCTT	CATTACACCC	AGAAAAATC	2040
	ACTTTGGTCA	ACAAGAATGC	TCAGATAATT	CTCAACTCT	GCTTCAGTGC	AAAGTTTACA	2100
	CCTACTAAGC	AAAACATCA	AGTGGCCATT	GTATATAACA	TCACACTTGA	TGCAGATGGA	2160
	TTTTTATCCA	GAGTAACTTC	CAGGGGGTTA	TTTAAAGAAA	ACAATGAAGG	GTGCTGTCAG	2220
	AAGAATATAG	AGTAAATCA	AGCACAGAGT	TGCCCGAGC	ACATCATTTA	TATACAGGAG	2280
40	CCCTCTGATG	TGTCAACTC	TTTGGATTTG	CGTGTGGACA	TCAGTCTGGA	AAACCTGGC	2340
	ACTAGCCCTG	CCCTTGAAGC	CTATTCTGAG	ACTGCCAAGG	TCTTCAGTAT	TCCTTTCCAC	2400
	AAAGACTGAG	ATGGGATGAG	ACTTTGCATT	TCTGATCTAG	TCCTAGATGT	COGACAAATA	2460
	CCAGCTGCTC	AAGAACACCC	CTTTATTGTC	AGCAACCAAA	ACAAAGGTTT	ACATTTTCA	2520
	GTAACACTGA	AAAATAAAG	GGAAAGTGCA	TACAACACTG	GAATGTGTGT	TGATTTTCA	2580
45	GAAAACCTGT	TTTTTGATC	ATTCTCCCTA	CCGGTTGATG	GGACAGAAAT	AACATGCCAG	2640
	GTGGCTGCAT	CTCAGAGTGC	TGTTGCCCTG	GATGTAGGCT	ACCTGCTTTT	AAAGAGAGAA	2700
	CAACAGGTGA	CTTTTACTAT	TAACTTTGAC	TTCAATCTTC	AAAACCTTCA	GAATCAGGCG	2760
	TCTCTCAGTT	TCCAGCCTT	AAAGTAAAGC	CAAGAAGAAA	ACAAGGCTGA	TAATTTGGTC	2820
	AACTCTCAAA	TTCTCTCCT	GTATGATGCT	GAAATTCAT	TAAACAGATC	TACCAACATA	2880
50	AATTTTTATG	AAATCTCTTC	GGATGGGAAT	GTTCCTTCAA	TCGTGCACAG	TTTTGAAGAT	2940
	GTGGTCCAA	AATTCATCTT	CTCCCTGAAG	GTAAACACAG	GAAGTGTTC	AGTAAGCATG	3000
	GCAACTGTAA	TATCCACAT	CCCTCAGTAT	ACCAAGAGAA	AGAACCCACT	GATGTACCTA	3060
	ACTGGGTGTC	AAACAGACAA	GGCTGGTGAC	ATCAGTTGTA	ATGCAGATAT	CAATCCACTG	3120
	AAAATAGGAC	AAACATCTTC	TTCTGTATCT	TTCAAAAGTG	AAAATTTTCA	GCACACCAAA	3180
55	GAATGAACT	GCAGAACTGC	TTCTGTAGT	AAATTTACCT	GCTGGTTGAA	AGACGTTTAC	3240
	ATGAAAGAGG	AATACCTTGT	TAAATGTGACT	ACCGAAATTT	GGAAACGGAC	TTTGCATGAC	3300
	TCACCGTTCC	AGACAGTACA	GCTAACGGCA	GCTGCAGAAA	TCAACACTTA	TAAACCTGAG	3360
	ATATATGTGA	TGAAGATGAA	CACTGTGACG	ATTCCCTTGA	TGATATGAA	ACCTGATGAG	3420
	AAAGCCGAAG	TACCAACAGG	AGTTATAATA	GGAAGTATAA	TGCTGGAAT	CCTTTTGTG	3480
60	TTAGCTCTGG	TTGCAATTTT	ATGGAAGCTC	GGCTCTCTCA	AAAGAAAATA	TGAAAAGATG	3540
	ACCAAAAATC	CAGATGAGAT	TGATGAGACC	ACAGAGCTCA	GTAGCTGAAC	CAGCAGACCT	3600
	ACCTGCAGTG	GGAAACGGCA	GCATCCGAGC	CAGGGTTTGC	TGTTTGCCTG	CATGGATTTC	3660
	TTTTTAAATC	CCATATTTT	TTTATCATGT	CGTAGGTAAA	CTAACCTGCT	ATTTTAAAGAG	3720
	AAAACCTGAG	GTGAGTTTGG	ATGAAGAAAT	TGTGGGGGGT	GGGGGAGGTG	CGGGGGGACG	3780
65	GTAGGGAAAT	AATAGGGAAA	ATACCTATTT	TATATGATGG	GGGAAAAAAA	GTAATCTTTA	3840
	AACTGGCTGG	CCCAGAGTTT	ACATTTCTAA	TTGCATTGTG	TCAGAAACAT	GAAATGCTTC	3900
	CAAGCATGAC	AACCTTTTAA	GAAAAATATG	ATACTCTCAG	ATTTTAAAGG	GAAAAACTGT	3960
	TCTCTTTAA	ATATTTGTCT	TTAAACAGCA	ACTACAGAA	TGGAAAGTCT	TGATATGTAA	4020
	GTACTTCCAC	TGTGTATAT	TTTAAATGAA	ATTGATGTTA	ACAAGAGGGG	AAAACAAAAC	4080
70	ACAGGTTTTT	TCAATTTATG	CTGCTCATCC	AAAGTTGCCA	CAGATGATAC	TTCCAAGTGA	4140
	TAATTTTATT	TATAAATCTAG	GTAAATTTTG	TGTTTGGTTC	CTTTTATACC	ACGGCTGCCC	4200
	CTCCACACCC	CCATCTTGCT	CTAATGATCA	AAACATGCTT	GAATAACTGA	GCTTAGAGTA	4260
	TACCTCTCTAT	ATGTCCATTT	AAGTTAGGAG	AGGGGGCGAT	ATAGAGACTA	AGGCACAAAA	4320
	TTTTGTTTAA	AACTCAGAA	ATAACATTTA	TGTAAAATCC	CATCTGCTAG	AAGCCCATCC	4380
75	TGTGCCAGAG	GAAGGAAAG	GAGGAAATTT	CTTTCTCTT	TTAGGAGGCA	CAACAGTTCT	4440
	CTTCTAGGAT	TGTTTGGCT	GACTGGCAGT	AACTTAGTGA	ATTTTGTAAA	GATGAGTAAT	4500
	TTCTTTGGCA	ACCTTCTCTC	TCCCTTACTG	AACCACTCTC	CCACCTCTGT	TGTGATCCAT	4560
	TATTATAGAA	GCCCTTACAA	GCCTGACTTT	CTCTCCAGCG	GTCCAAAGTT	ATCCCTCTCT	4620
	TACCCCTCA	TCCAAAGTTT	CCAATCTCTC	AGGACAGCTG	CTGTGCATTA	GATATTAGGG	4680
80	GGGAAAGTCA	TCGTGTTAAT	TTACACACTT	GCATGAATTA	CTGTATATAA	ACTCCTTAAC	4740
	TTCAGGGAGC	TATTTTCAAT	TAGTGTCTAA	CAAGTAAGAA	AAATAAGCTA	GAGTGAATTT	4800
	CTAAATGTTG	CGATGTTATG	GAATGTAAAC	AATGTAAAGT	AAAACACTCT	CAGGATTTCA	4860
	CCAGAAAGTTA	CAGATGAGGC	ACTGGAAACC	ACCACCAAT	TAGCAGGTGC	ACCTTCTGTG	4920
	GCTGTCTTGT	TTCTGAAGTA	CTTTTCTTTC	CACAAGAGTG	AATTTGACCT	AGGCAAGTTT	4980
	GTTCAAAAGG	TAGATCTCTGA	GATGATTTTG	TCAGATTGGG	ATAAGGCCCA	GCAATCTGCA	5040

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 TTTTAACAAG CACCCCGATC ACTAGGATGC AGATGGACCA CACTTTGAGA AACACCACCC 5100
 ATTTCTACTT TTGTCACCTT ATTTTCTCTG TTCTTGAGCC CCCACATTCT CTAGGAGAAA 5160
 CTTAGATTAA AATTACACAGA CACTACATAT CTAAAGCTTT GACAAGTCTT TGACCTCTAT 5220
 AAACCTCAGA GTCCTCATTG TAAATGGGA AGACTGAGCT GGAGTTCAGC AGTGATGCTT 5280
 TTTAGTTTAA AAAGTCTATG ATCTGATCTG GACTTCTCTAT AATACAAATA CACAATCTCT 5340
 CAAGAATTGG ACTTGGAAAA G 5361

Seq ID NO: C124 DNA Sequence

Nucleic Acid Accession #: NM_031460

Coding sequence: 103..1101

10
 1 11 21 31 41 51
 15 AGCAGGGCGTT TGCAGAGGGA GATACGAGCT GGACGCTCGG CCTTCCCTC CCACCGGGTC 60
 CTAGTCCACC GCTCCCGGCG CCGGCTCCCC GCCTCTCCCG CTATGTACCG ACCGCGAGCC 120
 CGGGCGGCTC CGAGGGGCGAG GGTCCGGGGC TGCGCGGTGC CCAGCACCGT GCTCCTGCTG 180
 CTCGCTTACC TGGCTTACCT GGCCTTGGGC ACCGGCGTGT TCTGGACGCT GGAGGGCGCG 240
 GCGGCGCAGG ACTCCAGCGG CAGCTTCCAG CGGACAAAGT GGGAGCTGTT GCAGAACTTC 300
 20 ACGTGTCTGG ACCGCGCGGC GCTGGACTCG CTGATCCGGG ATGTCTGTCA AGCATAACAA 360
 AACGGAGCCA GCTCTCTCAG CAACACCACC AGCATGGGGC GCTGGGAGCT CGTGGGCTCC 420
 TTCTTCTTTT CTGTGTCCAC CATCACACC ATTGGCTATG GCAACCTGAG CCCCAACACG 480
 ATGGCTGCCG GCCTCTCTG CATCTTCTT GCCCTGTGG GATCCCACT CAACCTCGTG 540
 GTGCTCAACC GACTGGGGCA TCTCATGCAG CAGGGAGTAA ACCACTGGGC CAGCAGGCTG 600
 25 GGGGGCACCT GGCAGGATCC TGACAAGCGG CGGTGGCTGG CGGGCTCTGG CGCCTCTCTC 660
 TCGGGCTCTC TGCTCTTCTT GCTGTGCTCA CCGCTGCTCT TCTCCCATAT GGAGGGCTGG 720
 AGCTACACAG AGGGCTTCTA CTTGCGCTTC ATCACCTCA GCACCGTGGG CTTGGGCGAC 780
 TAGCTGATGG GAATGAACCC CTCGAGAGG TACCACTGT GGTACAAGAA CATGTGTGTC 840
 CTGTGATGCC TCTTTGGGAT GGCATGGCTG GCCTTGATCA TCAAACTCAT CCTCTCCAG 900
 30 CTGGAGACGC CAGGGAGGGT ATGTTCTCTG TGCCACCACA GCTCTAAGGA AGACTTCAAG 960
 TCCCAAGAGT GGAGACAGGG ACCTGACCGG GAGCCAGAGT CCCACTCCCC ACAGCAAGGA 1020
 TGCTATACAG AGGGACCCAT GGGAAATCATA CAGCATCTGG AACCTTCTCG TCACGCTGCA 1080
 GGCTGTGGCA AGGACAGCTA GTTATACTCC ATTCTTTGGT CGTCTGCTCT GGTAGCAAGA 1140
 CCCCTGATTT TAAGCTTTGC ACATGTCCAC CCAACTAAA GACTACATTT TCCATCCACC 1200
 35 CTAGAGGCTG GGTGCAGCTA TATGATTAAT TCTGCCCAAT AGGGTATACA GAGACATGTC 1260
 CTGGGTGACA TGGGATGTGA CTTTGGGGTG TCGGGGCAGC ATGCCCTTCT CCCCCACTTC 1320
 CTTACTTTAG CCGGGCTGCA TGGCGCGGAT ATGATGGCTG GGAGCTCTGG CAGCCATACG 1380
 GCACCATGAA GTAGCGGCAA TGTTTGAGCG GCACAATTAG ATAGGAAGAG TCTGGATCTC 1440
 40 TGATGATCAC AGAGCATCC TAACAAACGG AATATCACCG ACCCTCTCTT ATGTGAGAGA 1500
 GAAATAAACA TCTATGAAA 1519

Seq ID NO: C125 DNA Sequence

Nucleic Acid Accession #: NM_004154

Coding sequence: 309..1295

45 1 11 21 31 41 51
 50 AAGGACAGAG GAGGGGCGCT TCCTGTGAGC TGGCTGGGAG CAGAGGTGGC TTGTCTTTT 60
 CGGAAGAACT GGTTCGTGGG AATTGTGCT TATTTCCCAT CAAGGATCAA GGACCTGCTC 120
 TGGGGCTACC TCAGGGGCCC ACAGGATGAG GGGCTGGTTT TCAGATGAGT TTTCTGCTTG 180
 CCTGTCTATC GGATAGTGTG TAAAAATTGG CAAACTGCCT TCTTGTGAGT GTCTTGTCTA 240
 TTCTTCTATG CACTCTGTAT ATGTCTCTCA GTTCTCTCAT CTGCTGCCTC TCCAGACTTC 300
 TGCCAGAAAC TTGCAGCGCA CAGTTTCAGG CACAGAACTG ACTGGCAGCA GGGCTGTCTC 360
 55 CACGAGTGGG AATTGTCTCC AGCACTTCAC GSACTGCAAG CGAGGCACTT GCTAACTCTT 420
 GGATAACAAG ACCTCTGCCA GAAGAACCAT GGCTTTGGAA GCGGAGTTTC AGGCTGAGGA 480
 GATGGGTGCG GTCTCTAGTG AGCCCCTGCC TCCTGGAACA TAGGAAACCC ACCTGGGCGA 540
 CCATGGAATG GGACAAATGG ACAGGCCAGG CTCTGGGCTT GCCACCCACC ACCTGTGTCT 600
 ACCGCGAGAA CTTCAAGCAA CTGCTGTGTC CACCTGTGTA TCGGCGGTG CTGGCGGCTG 660
 60 GCCTGCGCTT GAAACATCTG TCAATACCC AGATCTGCAC GTCCCGCCCG GCCCTGACCC 720
 GCAOCCGCGT GTACACCCTA AACCTTGCTC TGGCTGACCT GCTATATGCC TGCTCCCTGC 780
 CCCTGCTCAT CTACAATAT GCCAAGGTG ATCACTGGCC CTTTGGGAGC TTGCGCTGCC 840
 GCCTGGTCCG CTTCTCTTTC TATGCCAAAC TGCAOCCGAG CATCTCTTTC CTCACTGCA 900
 TCAGCTTCCA GCGCTACCTG GGCATCTGCC ACCCGCTGGC CCCTGGCAC AAAGTGGGG 960
 65 GCGCGCGGCG TGCCGTGGCTA GTGTGTGTAG CGGTGTGGCT GSCGTGACA ACCCAGTGCC 1020
 TGCCCAACAG CATCTTGCTT GCCACAGGCA TCCAGCGTAA CCGCACTGTC TGCTATGACC 1080
 TCAGCCCGCC TGCCCTGGCC ACCCACTATA TGCCCTATGG CATGGCTCTC ACTGTCTATG 1140
 GCTTCTGCTC GCCCTTTGCT GCCCTGCTGG CCGTCTACTG TCTCTTGGCC TGCCGCTCTG 1200
 GCGCGCAGGA TGGCCCGGCA GAGCCTGTGG CCCAGGAGCG GCGTGGCAAG GCGGCCGCA 1260
 70 TGCCCGTGGT GGTGGCTGCT GCCTTTGCCA TCAGCTTCTC GCTTTTTCAC ATCAACAGA 1320
 CAGCCTACCT GGCAGTGGCG TCGACGCGCG GCGTCCCTCG CACTGTATTG GAGGCGCTTG 1380
 CAGCGGCTTA CAAAGGCAGG CGGCCGTTTG CCAGTGCCAA CAGCGTCTG GACCCCATCC 1440
 TCTTCTACTT CACCCAGAAG AAGTTCCGCC GCGGACCA CA TGAGCTCCTA CAGAACTCA 1500
 CAGCCAAATG GCAGAGGCGAG GGTGCTGAG TCTTCCAGGT CCTGGGCGAC CTTCTATATT 1560
 75 GGCATTGTGT CCGGGGCACC AGGAGCCCCA CCAACCCCAA ACCATGCGGA GAATTAGAGT 1620
 TCAGCTCAGC TGGGCTATGA GTTAAGATCC CTCACAGGAC CCAGAAGCTC ACCAAAAACT 1680
 ATTTCTTCAG CCCCTTCTCT GGGCCAGACC CTGTGGGCAT GGAGATGGAG AGACCTGGGC 1740
 CTGGCTCTTG AGAGGTGCCA GTCAGCCATG GAGAGCTGGG GAAACCATAT TAAGGTGCTC 1800
 ACAAATAATC AGTGTGACGT GTACTGTCAA AA 1832

Seq ID NO: C126 DNA Sequence

Nucleic Acid Accession #: NM_007197

Coding sequence: 18..1763

1 11 21 31 41 51

	ACACGTCCAA	CGCCAGCATG	CAGGCCCCGG	GCCCCCGCCT	GTGGCTGGTC	CTGCAGGTGA	60
	TGGGCTCGTG	CGCCGCGCATC	AGCTCCATGG	ACATGGAGCG	CCCCGGGCGAC	GGCAAAATGCC	120
	AGCCCATCGA	GATCCCGATG	TGCAAGGACA	TCCGCTACAA	CATGACTCGT	ATGCCCAACC	180
5	TGATGGGCCA	CGAGAACCAG	CGCGAGGCAG	CCATCCAGTT	GCACGAGTTC	GCGCCGCTGG	240
	TGGAGTACGG	CTGCCACGGC	CACCTCCGCT	TCTTCTCTGT	CTCGCTGTAC	GCGCCGATGT	300
	GCACCGAGCA	GGTCTCTACC	CCCATCCCGG	CCTGCCGGGT	CATGTGCGAG	CAGGCCCGGC	360
	TCAAGTGCTC	CCCGATTATG	GAGCAGTTCA	ACTTCAAGTG	GCCCGACTCC	CTGGAAGTCC	420
	GGAACTCCC	CAACAAGAAC	GACCCCAACT	ACCTGTGCAT	GGAGGCGCCC	AACAACGGCT	480
10	CGGACGAGCC	CACCCGGGGC	TCGGGCTGT	TCCCGCCGCT	GTTCGGGCGG	CAGCGGCCCC	540
	ACAGCGCGCA	GGAGCACCAG	CTGAAGGACG	GGGGCCCCGG	GCGCGGCGGC	TGCGACAACC	600
	CGGGCAAGTT	CCACCACTGG	GAGAAGAGCG	CGTCTGCGCG	GCGCTCTGCG	ACGCCCGCGG	660
	TGGACGTGTA	CTGGAGCCCG	GAGGACAAGC	GCTTCGCGAGT	GGTCTGGCTG	GCCATCTGGG	720
	CGGTGCTGTG	CTTCTTCTCC	AGCGCCTTCA	CGTGTCTCAC	CTTCTCTATC	GACCGGCCCC	780
15	GCTTCGCTTA	CCCCGAGCGC	CCCATCATCT	TCTTCTCCAT	GTGCTACTGC	GTCTACTCCG	840
	TGGGCTACCT	CATCCGCGCT	TTCGCCGGCG	CCGAGAGCAT	CGCCTGCGAC	CGGGACAGCG	900
	GCCAGTCTTA	TGTCATCCAG	GAGGGAATCG	AGAGCAACCG	CTGCACGCTG	GTCTTCTCTG	960
	TCCTCTACTA	CTTCGCGCATG	GCCAGCTCGC	TGTGGTGGGT	GGTCTCTACG	CTCAGCTGGT	1020
	TCCTGGCCCG	CGGCAAGAAC	TGGGGCCACG	AGGCCATCGA	AGCCCAACAG	AGCTACTTCC	1080
20	ACCTGGCAGC	CTGGGCCATC	CCGCGCGTGA	AGACCATCCT	GATCCTGGTC	ATGCGCAGGG	1140
	TGGCGGGGGA	CGAGCTCACC	GGGGTCTGCT	ACGTGGGCGG	CATGGACGTC	AACGCGCTCA	1200
	CCGGCTTCGT	GCTCATTCCT	CTGGCCTGCT	ACCTGGTCAT	CGGCACGTCG	TTCATCTCTT	1260
	CGGGCTTCGT	GGCCCTGTTC	CACATCCGGA	GGGTGATGAA	GACGGGCGGC	GAGAACACGG	1320
	ACAAGCTGGA	GAAGCTCATG	GTGCGTATCG	GGCTCTTCTC	TGTGCTGTAC	ACCGTGCCGG	1380
25	CCACCTGTGT	GATCGCTGCG	TACTTTTACG	AACGCTTCAA	CATGGATTAC	TGGAAGATCC	1440
	TGGCGGCGCA	GCACAAGTGC	AAAATGAACA	ACCAGACTAA	AACGCTGGAC	TGCTGTATGG	1500
	CCGCTTCCAT	CCCGCCCGTG	GAGATCTTCA	TGGTGAAGAT	CTTTATGCTG	CTGGTGGTGG	1560
	GGATCACCAG	CGGGATGTGG	ATTTGGACCT	CCAAGACTCT	GCAGTCTCTG	CAGCAGGTGT	1620
	GCAGCCGTAG	GTTAAAGAAG	AAGAGCCGGA	GAAACCCGGC	CAGCGTATAC	ACCAGCGGTG	1680
30	GGATTTACAA	AAAAGCCGAG	CATCCCCAGA	AAACTCACA	CGGAAATAT	GAGATCCCTG	1740
	CCAGTTCGCG	CACCTGGGTG	TGAACAGGGC	TGGAGGGAAG	GGCACAGGGG	CGCCCGGAGC	1800
	TAAGATGTGG	TGCTTTTCTT	GGTTGTGTTT	TTCTTTCTTC	TTCTTTCTTT	TTTTTTTTTT	1860
	ATAAAGACAA	AAGAGAAATA	CATAAAAGAG	TGTTTACCTT	GAAATTCAGG	ATGCTGTGAT	1920
	ACACTGAAG	GAAAAATGTA	CTTAAAGGGT	TTTGTTTTGT	TTTGTTTTTC	CAGCGAAGGG	1980
35	AAGCTCTCTC	AGTGAAGTAG	CCTCTTGTGT	AACTAAITTG	TGGTAAAGTA	GTTGATTCAG	2040
	CCCTCAGAAG	AAAATCTTTT	TTTAGAGCCC	TCCGTAAATA	TACATCTGTG	TATTTGAGTT	2100
	GGCTTTGCTA	CCCATTTACA	AATAAGAGGA	CAGATAACTG	CTTTGCAAAAT	TCAAGAGCCT	2160
	CCCTCTGGGT	AACAATAGAG	CCATCCCCAG	GGCCCAACCC	CAGGAAGGCC	ACAGTGTCTG	2220
	GCGGCATCCC	TGCAGAGGAA	AGACAGGACC	CGGGGCCCGC	CTCACACCCC	AGTGGATTGT	2280
40	GAGTTGCTTA	AAATAGACTC	TGGCCTTCAC	CAATAGTCTC	TCTGCAAGAC	AGAAACCTCC	2340
	ATCAAACTCT	ACATTTGTGA	ACTCAAACGA	TGTGCAATAC	ATTTTCTTCT	CTTCTCTTGA	2400
	AAATAAAGAG	AGAAACAAGT	ATTTTGCTAT	ATATAAAGAC	AACAAAAGAA	ATCTCTTAAC	2460
	AAAAGAACTA	AGAGGCCAGG	CCCTCAGAAA	CCCTTCAGTG	CTACATTTTG	TGGCTTTTGA	2520
	ATGGAAACCA	GACCAATGTT	ATAGACGTTT	GGACTGATTT	GTGGAAGGGA	GGGGGAAGAA	2580
45	GGGAGAAGGA	TCATTCAAAA	GTTACCCAAA	GGGCTTATTG	ACTCTTTCTA	TTGTTAAACA	2640
	AATGATTTCC	ACAACAGATG	CAGGAAGCAC	TAGGTTGGCA	GAGACACTTT	GTCTAGTGTA	2700
	TTCTCTTCAC	AGTGCCAGGA	AAGAGTGGTT	TCTGCGTGTG	TATATTGTGA	ATATATGATA	2760
	TTTTTCATGC	TCCACTATTT	TATTAATAAT	AAAATATGTT	CTTTAAAAAA	A	2811

Seq ID NO: C127 DNA Sequence
Nucleic Acid Accession #: NM_005761.1
Coding sequence: 250..4956

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	GGATGGGGGG	GCGCGGGGAG	CCCGAGCGCG	CGCAGGAACC	GCCGCGCGCG	CGCGCGCGGT	180
	CTCGGTGGCC	GCGCGCCTGA	GCGCGCGTGG	CGCGCGCGCG	CCCTGCGCGG	GGCGCGCGCC	240
60	CCCAGCCCCA	TGGAGGTCTC	CGGAGGAAG	GCGCGCGCGG	GCCCCCGCGG	CCCCCGAGCG	300
	CCACTGCCCC	TGCTCGCTTA	TCTGCTGGCA	CTGGCGGCTC	CGCGCGGGGG	CGCGGACGAG	360
	CCCGTGTGGC	GGTTCGAGCA	AGCCATCGGA	GCCATCGCGG	CGAGCCAGGA	GGACGGCGTG	420
	TTTGTGGCGA	GCGGCGAGTG	CCTGGACGAG	CTGGACTACA	GCCTGGAGCA	CAGCCTCTCG	480
	CGCTGTATCA	GGGAACCAAG	GGGCAACTGC	ACAGAGCGGG	TCTGCTGGCG	GCCCCCGCGG	540
65	CGGCCCCGGC	CGGGAGCAG	CTTCAGCAAG	CTGCTGCTGC	CCTACCGCGA	GGGGCGCGCC	600
	GGCTTCGGGG	GGCTGCTGCT	CACCGGCTGG	ACCTTCGACC	GGGGCGCGTG	CGAGGTGCGG	660
	CCCTTGGGCA	ACCTGAGCCG	CAACTCCCTG	CGCAACGGCA	CGAGGTGGGT	GTCTGTCACG	720
	CGCAGGGGCT	CGACGGCGGG	CGTGGTGTAC	CGCGCGGGCC	GGAAACAACG	CTGGTACCTG	780
	GGGTGGCGCG	CCACTAGCT	GCTGCTGAG	CGGAGAGCGG	CGAGCGCGTG	CAACCCCGCG	840
70	GCATCCGACC	ACGACACCGC	CATCGCGCTC	AAGGACAAGG	AGGGGCGCAG	CCTGGCCACG	900
	CAGGAGCTGG	GGCGCTCAA	GCTGTGCGAG	GGCGCGGGCA	GCCTGCACCT	CGTGGACGCC	960
	TTTCTCTGGA	ACGGCAGCAT	CTACTTCCCC	TACTACCCCT	ACAATAATAC	GAGCGCGGCT	1020
	GCCACCGGCT	GGCCAGCAT	GGCGCGCATC	GCGCAGAGCA	CGAGGTGCT	GTTCCAGGGC	1080
	CAGGCATCCC	TGCACTGGGG	CCAACGGCAC	CCGACCGGCC	GCGCTCTGCT	CCTCTCTCTC	1140
75	AGCCTAGTGG	AGGCCCTGGA	CGTCTGGGCG	GGAGTGTTC	GCGCGGCGCG	TGGAGAGGGC	1200
	CAGGAGCGGC	GCTCCCCCAC	CACCAGCGCG	CTCTGCTCTT	TCAGAATGAG	TGAGATCCAG	1260
	GCGCGCGCCA	AGAGGGTCAG	CTGGGACTTC	AAGACGGCGG	AGAGCCACTG	CAAGAAGGGG	1320
	GATCAACCTG	AAAGAGTCCA	ACCAATCGCA	TCACTCACTT	TGATCCATTC	CGACCTGACA	1380
	TCGTTTATG	GCACCGTGGT	AATGAACAGG	ACTGTTTAT	TCTTGGGGAC	TGGAGATGGC	1440
80	CAGTTACTTA	AGGTTATICT	TGGTGAGAA	TTGACTTCAA	ATTGTCCAGA	GTTTATCTAT	1500
	GAAATTAAG	AAGAGACACC	TGTTTCTTAC	AAACTCGTTC	CTGATCCTGT	GAAGAATATC	1560
	TACATTTATC	TAACAGCTGG	GAAAGAGGTG	AGGAGAATTC	GTGTTGCAAA	CTGCAATAAA	1620
	CATAAATCCT	GTTCCGAGTG	TTTAAACAGC	ACAGACCCCT	ACTCGGTTTG	GTGCCATTGG	1680
	CTACAAAGGT	GCACCTTTTC	AGGAGATTGT	GTACATTGAG	AGAACTTAGA	AAACTGGCTG	1740
	GATATTTCTG	CTGGAGCAAA	AAAGTCCCTT	AAAATTCAGA	TAATTCGAAG	CAGTAAAGAA	1800

5	AAGACTACAG	TGACTATGGT	GGGAAGCTTC	TCTCCAAGAC	ACTCAAAGTG	CATGGTGAAG	1860
	AATGTGGACT	CTAGCAGGGA	GCTCTGCCAG	AATAAAAGTC	AGCCCAACCG	GACCTGCACC	1920
	TGTAGCATCT	CAACCAGAGC	AACCTACAAA	GATGTTTCAG	TTGTCAACGT	GATGTTCTCC	1980
	TTCCGTTCTT	GGAATTTATC	AGACAGATTG	AACCTTACCA	ACTGCTCATC	ATTAAAAGAA	2040
	TGCCCCAGAT	GCCTAGAAAC	TGGCTGCGCG	TGGTGTAATA	GTGCAAGAAG	GTGTATCCAC	2100
	CCCTTCACAG	CTTGGCAGCC	TTCTGATTAT	GAGAGAAACC	AGGAACAGTG	TCCAGTGGCT	2160
	GTGAGAGAAG	CATCAGGAGG	AGGAAGACCC	AAGGAGAACA	AGGGGAACAG	AACCAACCAG	2220
	GCTTTACAGG	TCTTCTACAT	TAAGTCCATT	GAGCCACAGA	AAGTATCGAC	ATTAGGGAAG	2280
10	AGCAACGTGA	TAGTTAACGGG	AGCAAACTTT	ACCCGGGCAT	CGAACATCAC	AATGATCCTG	2340
	AAAGGAACCA	GTACCTGTGA	TAAGGATGTG	ATACAGGTTA	GCCATGTGCT	AAATGACACC	2400
	CACATGAAAT	TCTCTCTTCC	ATCAAGCCGG	AAAGAAATGA	AGGATGTGTG	TATCCAGTTT	2460
	GATGGTGGGA	ACTGCTCTTC	TGTGGGATCC	TTATCCTACA	TTGCTCTGCC	ACATTGTTCC	2520
	CTTATATTTC	CTGCTACCAC	CTGGATCAGT	GGTGGTCAAA	ATATAACCAT	GATGGGCAGA	2580
	AATTTTGATG	TAAATTGACAA	CTTAATCATT	TCACATGAAT	TAAAAGGAAA	CATAAATGTC	2640
15	TCTGAATATT	GTGTGGGAGC	TTACTGCGGG	TTTTTAGCCC	CCAGTTTAAA	GAGTTCAAAA	2700
	GTGGGACAGT	TTGCTCACTGT	GAAGCTGAGA	GTACAGACA	CCTACTTGGG	TTGTGGAAAC	2760
	CTGCAGTATC	GGGAGGACCC	CAGATTACCG	GGGTATCGGG	TGGAATCCGA	GGTGGACACA	2820
	GAACTGGGAG	TGAAAATTCA	AAAAGAAAAA	GACAACTTCA	ATATTTCCAA	AAAAGACATT	2880
20	GAAATTTGAT	TCTTCCATGG	GGAAAATGGG	CAATTAAATT	GCAGTTTGA	AAATATTACT	2940
	AGAAATCAAG	ATCTTACCAC	CATCCTTTGC	AAAATTAAAG	GCATCAAGAC	TGCAAGCACC	3000
	ATTGCCAATT	CTTCTAAGAA	AGTTCCGGTC	AAGCTGGGAA	ACCTGGAGCT	CTACGTCGAG	3060
	CAGGAGTCAG	TTCCTTCCAC	ATGGTATTTT	CTGATTGTGC	TCCCTGTCTT	GCTAGTGTAT	3120
	GTCAATTTTG	CGGCCGTGGG	GGTGACCAGG	CACAAATCGA	AGGAGCTGAG	TGCAAAACAG	3180
25	AGTCAACAAC	TAGAAATGCT	GGAAAGCGAG	CTCCGGAAG	AGATAACGTA	CGGCTTTGCT	3240
	GAGCTGCAGA	TGGATAAATT	GGATGTGGTT	GATAGTTTTC	GAACTGTTCC	CTTCTTGTAC	3300
	TACAAACATT	TTGCTCTGAG	AACCTTCTTC	CCTGAGTCAG	GTGGCTTCA	CCACATCTTC	3360
	ACTGAAGATA	TGCATAACAG	AGACGCCAAC	SACAAGAATG	AAAGTCTCAC	AGCTTTGGAT	3420
	GGCCTAATCT	GTAATAAAAG	CTTCTCTGTT	ACTGTATCCC	ACACCTTGA	AAAGCAGAAG	3480
30	AACCTTTCTG	TGAAGGACAG	GTGCTGTGTT	GCCTCCTTCC	TAACCATTGC	ACTGCAAAAC	3540
	AAGCTGGTCT	ACCTGACCAG	CATCCTAGAG	GTGCTGACCA	GGGACTTGAT	GGAAACAGTG	3600
	AGTAACATGC	AGCCGAAACT	CATGCTGAGA	CGCAOGGAGT	CGCTGTCGA	AAAATCCTTC	3660
	ACAAACTGGA	TGTCCGCTCG	CCTTCTGGA	TTTCTCCGGG	AGACTGTCCG	AGAGCCCTTC	3720
	TATTTGCTGG	TGACGACTCT	GAACCAAGAA	ATTAACAAGG	GTCCCGTGA	TGTAATCACT	3780
35	TGCAAGACCC	TGTACACACT	TAATGAAGAC	TGGCTGTTGT	GGCAGGTTCC	GGAATTCAGT	3840
	ACTGTGGCAT	TAAACGTGCT	CTTTGAAAAA	ATCCCGGAAA	ACGAGAGTGC	AGATGTCTGT	3900
	CGGAATATTT	CAGTCAATGT	TCTCGACTGT	GACACCAATT	GCCAAGCCAA	AGAAAAGATT	3960
	TTCCAGCAT	TCTTAAGCAA	AAATGGCTCT	CCTTATGGAC	TTCACTTAA	TGAAATTGGT	4020
	CTTGAGCTTC	AAATGGGCAC	ACGACAGAAA	GAACCTTCGG	ACATCGACAG	TTCTCCGTTG	4080
40	ATTCTTGAAG	ATGGAATCAC	CAAGCTAAAC	ACCAATGGCC	ACTATGAGAT	ATCAAAATGA	4140
	TCCACTATAA	AGATCTTTAA	GAAGATAGCA	AATTTTACTT	CAGATGTGGA	GTACTCGGAT	4200
	GACCACTGCC	ATTGTATTTT	ACCAGATTGC	GAAGCATTCC	AAGATGTGCA	AGGAAGAGA	4260
	CATCGAGGGA	AGCACAAGTT	CAAAGTAAAA	GAAATGTATC	TGACAAAGCT	GCTGTCCACC	4320
	AAGGTGGCAA	TTCAATCTGT	GCTTGAAAAA	CTTTTGTAGG	GCATTTGGAG	TTTATCCCAAC	4380
45	AGCAGAGTCC	CATTTGCTAT	AAAATACITT	TTTGACTTTT	TGGACGCCCA	GGCTGAAAC	4440
	AAAAAATCA	CAGATCCTGA	CGTCGTACAT	ATTTGAAAAA	CAACACGCCT	TCCTCTTCGC	4500
	TTCTGGGTAA	ACATCCTGAA	GAACCCCTCAG	TTTGTCTTTG	ACATTAAGAA	GACACCACAT	4560
	ATAGACGGCT	GTGTGTCAGT	GATTGCCCCAG	GCATTCATGG	ATGCATTTTC	TCTCACAGAG	4620
	CAGCAACTAG	GGAAAGGAGC	ACCAACTAAT	AAGCTTCTCT	ATGCCAAGGA	TATCCCAACC	4680
50	TACAAAGGAG	AAGTAAATCT	TTATTACAAA	GCAATCAGGG	ATTGCTCTCC	ATTGTCATCC	4740
	TCAGAAATGG	AGAATTTTTT	AACCTCAGGA	TCTAAGAAAC	ATGAAAATGA	ATTTAATGAA	4800
	GAAGTGGGCT	TGACAGAAAT	TTACAAATAC	ATCGTAAAT	ATTTTGTATG	GATTTAAAT	4860
	AAACTAGAAA	GAGAAGGAGG	GCTGGAAGAA	GCTCAGAAAC	AACCTCTGCA	TGTAAAAGTC	4920
	TTATTTGATG	AAAAAGAGAA	ATGCAAGTGG	ATGTAAGCAC	TCTGGGGCCT	GGCTTAATCT	4980
55	GGCAAGATT	TTCAAGACAG	TTGGAGGCAA	AATGGCTGCT	TGAGCTACTC	TGTGTGTTA	5040
	ATTGTGTTGT	TGCACATAGG	TTCCACTTTG	GGCAGTGTCT	TTTTAAGAGA	CCAAGGCACA	5100
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Seq ID NO: C128 DNA Sequence

Nucleic Acid Accession #: NM_002185.1

Coding sequence: 23..1402

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	AGAACTGGAT	GACTACTCAT	TCTCATGCTA	TAGCCAGTTG	GAAGTGAATG	GATCGCAGCA	180
	TTCACTGACC	TGTGCTTTTG	AGGACCCAGA	TGTCAACACC	ACCAATCTGG	AATTTGAAAT	240
	ATGTGGGGCC	CTGTGGGAGG	TAAAGTGCC	GAATTTTCAG	AACTACAAG	AGATATATTT	300
70	CATCGAGACA	AAGAAATCT	TACTGATTGG	AAAGAGCAAT	ATATGTGTGA	AGGTTGGAGA	360
	AAAGAGTCTA	ACCTGCAAAA	AAATAGACCT	AACCACTATA	GTTAAACCTG	AGGCTCCTTT	420
	TGACCTGAGT	GTATCTATC	GGGAAGGAGC	CAATGACTTT	GTGGTGACAT	TTAATACATC	480
	ACACTTGCAA	AGAAGTATG	TAAAAGTTTT	AATGCATGAT	GTAGCTTACC	GCCAGGAAAA	540
	GGATGAAAAA	AAATGGAGCG	ATGTGAATTT	ATCCAGCACA	AAGCTGACAC	TCCTGCAGAG	600
75	AAAGCTCCAA	CCGGCAGCAA	TGTATGAGAT	TAAAGTTGGA	TCCATCCCTG	ATCACTATTT	660
	TAAAGGCTTC	TGGAGTGAAT	GGAGTCCAAG	TTATTACTTC	AGAACTCCAG	AGATCAATAA	720
	TAGCTGAGGG	GAGATGGATC	CTATCTTACT	AACCATCAGC	ATTTTGAATT	TTTTCTCTGT	780
	CGCTCTGTTG	GTATCTTTGG	CCTGTGTGTT	ATGGAAAAAA	AGGATTAAAG	CTATCGTATG	840
	GCCAGTCTC	CCCGATCATA	AGAAGACTCT	GGAACATCTT	TGTAAGAAAC	CAAGAAAAAA	900
80	TTTAAATGTG	AGTTTCAATC	CTGAAAGTTT	CCTGGACTGC	CAGATTCCATA	GGGTGGATGA	960
	CATTCAAGCT	AGAGATGAAG	TGGAAGGTTT	TCTGCAAGAT	ACGTTTCTCT	AGCAACTAGA	1020
	AGRAATCTGAG	AAGCAGAGGC	TTGGAGGGGA	TGTGCAGAGC	CCCAACTGCC	CATCTGAGGA	1080
	TGTAGTGTCT	ACTCCAGAAA	GCTTTGGAAG	AGATTATACC	CTCACATGCC	TGGCTGGGAA	1140
	TGTCAAGTGA	TGTGAGCCCC	CTATTCTCTC	CTCTCCAGG	TCCCTAGACT	GCAGGGAGAG	1200
	TGGCAAGAA	GGGCCTCATG	TGTACAGGA	CCTCTGCTT	AGCCTTGGGA	CTACAAACAG	1260

5 CACGCTGCC CCTCCATTT CTCTCCAATC TGGAACTCTG ACATTGAACC CAGTTGCTCA 1320
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CAGCTTCTAC CAAAACCATG GAAGTGTAAG AAACCCAGAC TGAACCTTACC GTGAGCGACA 1440
AAGATGATTT AAAAGGGGAG TCTAGAGTTC CTAGTCTCCC TCACAGCACA GAGAAGACAA 1500
AATTAGCAAA ACCCCACTAC ACAGTCTGCA AGATTCTGAA ACATTGCTTT GACCACTCTT 1560
CCTGAGTTCA GTGGCACTCA ACATGAGTCA AGAGCATCCT GCTTCTACCA TGTGGATTGG 1620
GTCACAAGGT TTAAGGTGAC CCAATGATTC AGCTATTT 1658

10 Seq ID NO: C129 DNA Sequence
Nucleic Acid Accession #: NM_002722.1
Coding sequence: 15..302

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GGGTGGCTCT GTTACTACAG CCACTGCTGG GTGCCCAGGG AGCCCCACTG GAGCCAGTGT 120
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TCTGGAGTG GGGGTCCCGG CATGCTGCTG TCCCAGGGA GCTCAGCCCG CTGGACTTAT 300
20 AATGCCACCT TCTGTCTCCT ACGACTCCAT GAGCAGCGCC AGCCAGCTC TCCCTCTGTC 360
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AAGCC 425

25 Seq ID NO: C130 DNA Sequence
Nucleic Acid Accession #: NM_032545.1
Coding sequence: 47..718

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GCACCGACAG TCACCGCTCA ACTGACCTC CAGTCATTTC GGAGAGGTGA CTGGGAGCGC 240
CGAGGGCTGG GGGCCGAGG AGCCGCTCCC CTACTCCCGG GCTTTCGGAG AGGGTGCGTC 300
35 CGCGGGCCG CGCTGCTGCA GGAACGGCGG TACCTGCGTG CTGGGAGCTG TCTGCGTGTG 360
CCCGGCCAC TTCAACGGCC GCTACTGCGA GCATGACCAG AGGCGCAGTG AATGCGGCGC 420
CCTGGAGCAC GGAGCCTGGA CCTCCGCGC CTGCCACCTC TGCAGGTGCA TCTTCGGGCG 480
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40 CCACGCTCAC GGGCCGAGCG CCGGGGGGCG GCCCAGCCTG CTACTCTTGC TGCCCTGCGC 600
ACTCTGACAC CGCCTCTGCG GCCCGGATGC GCCCGGCGAC CCTCGGTCCC TGGTCCCTTC 660
CGTCTCCAG CGGAGCGCGC GCCCTGCGG AAGGCCGGGA CTGGGCATC GCCTTTAATT 720
TTCTATGTTG TAAATAATAG ATGTGTTTAG TTTACCGTAA GCTGAAGCAC TGGGTGAATA 780
TTTTATTGG GTAATAAATA TTTTCATGAA AGCGCCAAAA AAAAAAAAAA AAAAAAAAAA 840
AAAAAA 846

45 Seq ID NO: C131 DNA Sequence
Nucleic Acid Accession #: NM_006533.1
Coding sequence: 72..467

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55 TCTCCGACC TGTGTGTCAG GGTGGTCTTA TGCCCAAGCT GGCTGACCGG AAGCTGTGTG 180
CGGACGACGA GTGACGCCAC CCTATCTCCA TGGCTGTGGC CCTTCAGGAC TACATGGCCC 240
CGGACTGCGG ATTCTTGACC ATTCACCGGG GCCAAGTGGT GTATGTCTTC TCCAAGCTGA 300
AGGGCCGTGG GCGGCTCTTC TGGGGAGGCA GCGTTCAGGG AGATTACTAT GGAGATCTGG 360
CTGCTGCGCT GGGCTATTTC CCCAGTAGCA TTGTCCGAGA GGACGAGACC CTGAAACCTG 420
60 GCAAAGTCGA TGTGAAGACA GACAAATGGG ATTTCTACTG CCAGTGAGCT CAGCCTACCG 480
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65 Seq ID NO: C132 DNA Sequence
Nucleic Acid Accession #: AB064272
Coding sequence: 1..708

70 1 11 21 31 41 51
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ACTGAGACCA TAAAAGCCCC AGTAAAGTCC ACAGAAAACC CAGAAAAAAC AGCAGCAGTC 240
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75 ACATCTAGAA CGAAGCTGAG TTCTATCACA TCAGAAAGCA CAGGAAACGA GAGCCATCCA 420
TACCTCAATA AAGATGGCTC ACAGAAAGGT ATCCAAGCTG GACAGATGGG AGAGAAATGAT 480
TCATTCCCTG CATGGGCCAT AGTTATTGTG GTCTTGGTGG CTGTGATTCT CCTCTGCTG 540
TTCTTGGGCC TGATCTTCTT GGTCTCTTAT ATGATGCGGA CACGCCGCAC ACTAACCAG 600
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80 ATGGAGCAGC AGAATCTTGG CATGGGCCAG ATCCCTTCCC CACGCTGA 708

Seq ID NO: C133 DNA Sequence
Nucleic Acid Accession #: NM_080870.1
Coding sequence: 3..710

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	AAGGGAAAAA	CACACCAGTC	CCAGAAAAGC	CTACAGAAAA	CCTGGGGAAC	ACCACTACTGA	180
	CCACTGAGAC	CATAAAAGCC	CCAGTAAAGT	CCACAGAAAA	CCCAGAAAAA	ACAGCAGCAG	240
	TCACAAAGAC	TATAAAACCT	TCAGTCAAGG	TCACAGGAGA	CAAATCTCTC	ACTACTACCT	300
10	CTTCTCATCT	AAATAAAACT	GAAGTTACTC	ATCAGGTGCC	CACTGGTTCT	TTCAACCTCA	360
	TTACATCTAG	AACGAAGCTG	AGTTCTATCA	CATCAGAAAC	CACAGGAAC	GAGAGCCATC	420
	CATACCTCAA	TAAAGATGGC	TCACAGAAAG	GTATCCACGC	TGGACAGATG	GGAGAGAATG	480
	ATTCAATCCC	TGCATGGGCC	ATAGTTATTG	TGGTCTCGGT	GGCTGTGATT	CTCCTCTGG	540
	TGTTCTTGG	CCTGATCTTC	TTGGTCTCCT	ATATGATGCG	GACACGCCGC	ACACTAACCC	600
15	AGAACACCCA	GTACAATGAT	GCAGAGGATG	AGGGTGGCCC	CAATTCCTAC	CCGGTCTACC	660
	TGATGGAGCA	GCAGAATCTT	GGCATGGGCC	AGATCCCTTC	CCCACGGTGA	TCTTGGAGTA	720
	GGCGCCAGC	CCTGGCTCTT	CCATGCTCTG	CCCCTTTCTC	GGATGAGGAA	CCGACTCAC	780
	AATTTCTATT	TCGGGACTA	CAGGAAGGGC	AGAGAATACT	GACGGTTACC	AGTATTAAAC	840
	CTTCACTGT	TCTTAAACT	GGTTGGGGAA	TGAGGTGATA	AGCAAGGAGG	GTGTAAGTTT	900
20	AGGGGACAAA	GAAGAAAGAA	TGAATAATAC	GAGCAGACAT	TCTCTGTAGA	AGGTAATGGT	960
	CTGAGAATGA	AAAGGTGTTT	GATGGACATG	TTGTGGGGGC	ACCAATGCAG	AAACATGCAC	1020
	TGAGTCTCAA	AGGAAGGACA	GGAGCCTTAT	AGGCAATGCC	CCAGACTGAC	TTGTGAGTGG	1080
	GGTTTATGGG	GAAGGGGAGG	GACTGAGGGC	AGAGTCTCTG	GGTTTCAGGA	CAGCATTAATG	1140
	TTATTTCCAT	TCACTATTAC	TTAAGAGTTT	GTGTGTAAC	AGGCTCATCT	CTGAGTTCTC	1200
25	AGGACCCCTG	CCCCCACCCT	CATTTTTTTA	ATGAAAAAAA	AAAAACAAAA	AAACGGATCC	1260
	AAGAAGAAAA	GAGAAATTTAT	TTCTCTTCCC	ACTCTCTCCA	TGCCCTGGAG	AAAAAAAGTA	1320
	CCAGAAGAAA	CATAAAATAT	CTCTCATCTA	CATGGTTGCT	TCTCTTCTCT	CCCAATCCC	1380
	TTAGTTTCCC	TAAATGTCTA	CAGTGGACGC	CCTGTTGGTT	TGGCTTGCTG	GGTTGTGGGT	1440
	GGACACGCAA	GGAGGGGATT	TTTATTTGGC	CAGCAGTCTC	ACCCACTGAT	CTCCACCCCA	1500
30	GACCTTCCCT	GATTGGTGTC	TCAGCATTTA	TTTTCTCTGTC	TCTTCCACCA	AAAGCCAGCT	1560
	GTAGCTTTAT	CTCGTAAAG	TTACCCATCT	TCTCTACTGT	CCCATTTCTC	TCTCTCCCA	1620
	CCTTACCCCT	AGATTCAAGT	TTTCTCTCTT	GTAGGCATTT	CATCTGTGTG	TGTTTCTGG	1680
	ATTTTCTCTC	TCTCTTCTTA	TGGCCATTTT	ACCTTATTAC	TGATTGGGTA	GAGGGGGAAA	1740
	AGGAGAATGA	TGATGATAGT	TTCCITCTGT	CTATTGACCT	TTTTTATAAT	AAAGTATAAC	1800
35	ATGTT						1805

Seq ID NO: C134 DNA Sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..10674

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45	GGGGCCCCCG	GGAGTATCCC	CGCGCGCCCT	GCTCCTGGCG	ACGAAGCGGC	GGGGAGCAGA	180
	GTGGAGCGGC	TGGGCCAGGC	GTTCGGGCGA	CGCGTGGCGC	TGCTGGGGGA	GCTCAGCGAG	240
	CGCTGGAGC	TTGTCTTCTT	GGTGGATGAT	TGCTCCAGCG	TGGGCGAAGT	CAACTTCCGC	300
	AGCGAGCTCA	TGTTCTGTCG	CAAGCTGCTG	TCCGACTTCC	CCGTGGTGGC	CACGGCCACG	360
50	CGCGTGGCCA	TGCTGACCTT	CTGTTCCAAG	AACTAGTGGG	TGCCCGCGGT	CGATTACATC	420
	TCCACCGCCG	GGCGCGGCCA	GCACAAGTGC	CGCTGCTCTC	TCCAAGAGAT	CCCTGCCATC	480
	TCTTACCGAG	GTGGCGGCAC	CTACACCAAG	GGCGCCTTCC	AGCAAGCGCG	GCAAAATCTT	540
	CTTCTAGCTA	GAGAAAACTC	AACAAAAGTT	GTATTCTCTA	TCACTGATGG	ATATTCCAAT	600
	GGGGGAGACC	CTAGACCAAT	TGCAGCGTCA	CTGCGAGATT	CAGGAGTGA	GATCTTCACT	660
55	TTTGGCATAT	GGCAAGGGAA	CATTGAGAG	CTGAATGACA	TGGCTTCCAC	CCCAAGGAG	720
	GAGCACTGTT	ACCTGCTACA	CAGTTTGTAA	GAATTTGAGG	CTTTAGCTCG	CCGGGCATTG	780
	CATGAAGATC	TACCTTCTGG	GAGTTTATT	CAAGATGATA	TGGTCCACTG	CTCATATCTT	840
	TGTGATGAAG	GCAAGGACTG	CTGTGACCGA	ATGGGAAGCT	GCAATGTGGG	GACACACACA	900
	GGCCATTTTG	AGTGCATCTG	TGAAAAGGGG	TATTACGGGA	AAGGTCTGCA	GTATGAATGC	960
60	ACAGCTTGCC	CATCGGGGAC	ATACAAACCT	GAAGGCTCAC	CAGGAGGAAT	CAGCAGTTGC	1020
	ATTCCATGTC	CTGATGAAAA	TCACACCTCT	CCACCTGGAA	GCACATCCCC	TGAAGACTGT	1080
	GTCTGCAGAG	AGGGATACAG	GGCATCTGGC	CAGACCTGTG	AACTTGTCCA	CTGCCCTGCC	1140
	CTGAAGCCTC	CGGAAAATGG	TTACTTTATC	CAAAACACTT	GCAACAACCA	CTTCAATGCA	1200
	GCCTGTGGGG	TCCGATGTCA	CCCTGGATT	GATCTTGTGG	GAAGCAGCAT	CATCTTATGT	1260
65	CTACCCAAATG	GTGTTGGTGC	CGGTTGAGAG	AGCTACTGCA	GAGTAAGAAC	ATGTCCTCAT	1320
	CTCGCCAGC	CGAAACATGG	CCACATCAGC	TGTTCTACAA	GGGAATGTTT	ATATAAGACA	1380
	ACATGTTTGG	TTGCCCTGTGA	TGAAGGGTAC	AGACTAGAAG	GCACTGATAA	GCTTACTTGT	1440
	CAAGGAACCA	GCCAGTGGGA	TGGGCCAGAA	CCCGGTGTGT	TGGAGCGCCA	CTGTTCCACC	1500
	TTTCAGATGC	CCAAAGATGT	CATCATATCC	CCCCACAATC	GTGGCAAGCA	GCCAGCCAAA	1560
70	TTTGGGACGA	TCTGCTATGT	AAGTTGCCGC	CAAGGGTTCA	TTTTATCTGG	AGTCAAAGAA	1620
	ATGCTGAGAT	GTACCACTTC	TGGAAAATGG	AATGTCCGAG	TTCAGGCAGC	TGTGTGTAAA	1680
	GAOGTGGAGG	CTCCTCAAT	CAACTGTCTT	AAGGACATAG	AGGCTAAGAC	TCTGGAACAG	1740
	CAAGATTCTG	CCAATGTTAC	CTGGCAGATT	CCAACAGCTA	AAGACAATCT	TGTTGAAAAG	1800
	GTGTCACTCC	ACGTTTATCC	AGCTTTCACC	CCACCTTACC	TTTTCCCAAT	TGGAGATGTT	1860
75	GCTATCGTAT	ACACGGCAAC	TGACCTATCC	GGCAACCAGG	CCAGCTGCAT	TTTCCATATC	1920
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	GTCTCGGAGA	AGGTACATGC	CGCAAGCTGG	GATGAGCCTC	AGTCTCTAGA	CAACTCAGGG	2040
	GCTGAATTGG	TCAATTACCA	AAGTCATACA	CAAGGAGACC	TTTTCTCTCA	AGGGGAGACT	2100
	ATAGTACAGT	ATACAGCCAC	TGACCCCTCA	GGCAATAACA	GGACATGTGA	TATCCATATT	2160
80	GTCAATAAAG	GTCTCCCTG	TGAAATTTCA	TTACACCTG	TAAATGGGGA	TTTTATATGC	2220
	ACTCCAGATA	ATACTGGAGT	CAACTGTACA	TAACTTGCT	TGGAGGGCTA	TGATTTTACA	2280
	GAAGGGTCTA	CTGACAAGTA	TTATTGTGCT	TATGAAGATG	GGCTGTGGAA	ACCAACATAT	2340
	ACCACTGAAT	GGCCAGACTG	TGCCAAAAAA	GGTTTTCGAA	ACCAAGGGTT	CAAGTCTTAT	2400
	GAGATGTTCT	ACAAAGCAGC	TGTTGTGAT	GACACAGATC	TGATGAAGAA	GTGTTCTGAA	2460
	GCATTTGAGA	CGACCTGGG	AAAAATGGTC	CCATCATTTT	GTAGTGTATG	AGAGGACATT	2520

	GACTGCAGAC	TGGAGGAGAA	CCTGACCAAA	AAATATTGCC	TAGAATATAA	TTATGACTAT	2580
	GAAAAATGGCT	TTGCAATTGG	ACCAAGGTGGC	TGGGGTGACG	CTAATAGGCT	GGATTACTCT	2640
	TACGATGACT	TCCGTGACAC	TGTGCAAGAA	ACAGCCACAA	GCATCGGCAA	TGCCAAGTCC	2700
5	TCACGGATTA	AAAGAAGTGC	CCCATTATCT	GACTATAAAA	TTAAGTTAAT	TTTTAACATC	2760
	ACAGCTAGTG	TGCATTATCC	CGATGAAAGA	AATGATACCC	TTGAATGGGA	AAATCAGCAA	2820
	CGACTCCTTC	AGACTATGGA	AACTATCACA	AATAAACTGA	AAAGGACTCT	CAACAAAGAC	2880
	CCCATGTATT	CCTTTCAGCT	TGCATCAGAA	ATACTTATAG	CCGACAGCAA	TTCAATTAGAA	2940
	ACAAAAAAGG	CTTCCCCCTT	CTGCAGACCA	GGCTCAGTGC	TGAGAGGGCG	TATGTGTGTC	3000
10	AATTGCCCTT	TGGGAACCTA	TTATAATCTG	GAACATTTCA	CCTGTGAAAG	CTGCCGGATC	3060
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	TACTCATACA	GTGGACTTGA	GACITGTGAA	TCGTGTCCAC	TGGGCACCTA	TCAGCCAAAA	3240
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15	GTGAACATT	CTGCATGTGG	AGTTCCTTGT	CCAGAAGGAA	AATTCTCGCG	TTCTGGGTTA	3360
	ATGCCCTGTC	ACCCATGTCC	TCGTGACTAT	TACCAACCTA	ATGCAGGGAA	GGCCTTCTGC	3420
	CTGGCTGCTC	ACCTTATGGA	AACTACCCCA	TTCCGTGGTT	CCAGATCCAT	CACAGAATGT	3480
	TCAACTTCAG	TTCTGAATAT	TACTATTTC	GGTGGATTGT	GGCATCTGGA	GTGTGTTAAAT	3540
	TGTCCTTCTG	AGGTTTTCCA	TGAATGCTTC	TTTAAACCTT	GCCACAATAG	TGGAACCTGC	3600
20	CAGCAACTTG	GGCGTGGTTA	TGTTTGTCTC	TGTCCACTTG	GATATACAGG	CTTAAAGTGT	3660
	GAAACAGACA	TGATGAGTGC	CAGCCCACTG	CCTTGCCTCA	ACAAATGGAGT	TTGTAAAGAC	3720
	CTAGTTGGGG	AATTCATTGT	TGAGTGCCCA	TCAGGTACCA	CAGGTGACGG	GTGTGAAGAA	3780
	AAATATAAATG	AGTGTAGCTC	CAGTCCCTGT	TTAATAAAG	GAATCTGTGT	TGATGGTGTG	3840
	GCTGGCTATC	GTTCACATG	TGTGAAAGGA	TTTGTAGGCC	TGCATTGTGA	AACAGAAGTC	3900
25	AATGAATGCC	AGTCAAAACC	ATGCTTAAAT	AATGCAGTCT	GTGAAGACCA	GGTTGGGGGA	3960
	TTCTTTGTGA	AATGCCCAACC	TGGATTTTGT	GGTACCCGAT	GTGGAAAGAA	CGTCGATGAG	4020
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	TGCCCTGTGTG	CAGCTGGCTT	CACAGGATCA	CACTGTGAAT	TGAACATCAA	TGAATGTGAG	4140
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30	TGTCAGCCAG	GATTTTCAGG	CAAAAGGTGT	GAACAGAAAC	AGTCTACAGG	CTTTAACTCTG	4260
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	TCTGATTGCC	CACGCTTAGG	AGGGTCAGTG	CCTCATCTGA	GAACCTGATC	TGAAGATTTA	4920
	AAGCCAGGTT	CCAAAGTCAA	TCTGTTCTGT	GATCCAGGCT	TCCAGCTGGT	CGGGAAACCTC	4980
	GTGCACTACT	GTCTGAATCA	AGGACAGTGG	ACACAACCA	TTCTCTAGTG	TGAACGCTAT	5040
	AGCTGTGGGG	TGCCACCTCC	TTTGGAGAA	GGCTTCCATT	CAGCCGATGA	CTTCTATGCT	5100
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	TTCTGTACAG	ATAATGGGAG	CTGGAACGGC	GTTCACCAAT	CCTGCCCTGA	TGTGATGAG	5220
	TGTGCACTTG	GATCAGATTG	TAGTGAGCAT	GCTTCTTGCC	TGAACGTAGA	TGGATCTTAC	5280
	ATATGTTTAT	GTGTCCCAAC	GTACACAGGA	GATGGGAAAA	ACTGTGCAGA	ACCTATAAAA	5340
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50	GCCGGAGTCA	CATTTTCTGT	TCAGGAAGGA	TACCAAGTTGA	TGGGAGTAA	CAAAATCACA	5460
	TGTTTGGAGT	CTGGGAATAG	GAATCATCTA	ATACCATATT	GTAAAGCTGT	TTTATGTGGT	5520
	AAACCCGCTT	CCAAAGTCAA	TGGTTGCATT	GAGGAGTTAG	CATTTACTTT	TGGCAGCRAA	5580
	GTGACATATA	GGTGTATATA	AGGATATACT	CTGGCCGGTG	ATAAAGAACT	ATCCTGTCTT	5640
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	TATTCACTGC	ATACAGGATA	CAGCTTACAG	GGCCCTTCCA	TTATTGAATG	CAGGCTTCTC	5820
	GGCATCTGGG	ACAGAGCGCC	ACCTGCCTGT	CACCTCGTCT	TCTGTGGAGA	ACCAACCTGCC	5880
	ATCAAAGATG	CTGTCAATAC	GGGGAATAAC	TTCACTTTCA	GGAAACCGGT	CACCTACACT	5940
	TGCAAAAGAG	GCTATACTCT	TGCTGTGCTT	GACACCATG	AATGCCCTGG	CGACGGCAAG	6000
60	TGGAGTAGAA	GTGACCAACA	GTGCCTGGCT	GTCTCTGTGT	ATGAGCCACC	CATTGTGGAC	6060
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	GATGGTTACA	GCCTAGCAGA	CAATTCOCAG	CTTCTCTGCA	ATGCCACGGG	CAAGTGGGTA	6180
	CCCCAGAGAG	GTCAAGACAT	GCCCGTTGT	ATAGCTCATT	TCGTGAAAA	ACCTCCATCG	6240
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	CCACCAAGCA	TCAATGAATGG	CTATGCAAGT	GGATCAAACT	ACAGTTTGGG	AGCCATGGTG	6480
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	AGCTCTCCAC	TGCCAGAAATG	TGTTCCAGTA	GAATGTCCCC	AACCTGAGGA	AATCCCCAAT	7320
	GGAACTATTG	ATGTGCAAGG	CCTTGCCTAT	CTCAGCACAG	CTCTCTATAC	CTGCAAGCCA	7380
	GGCTTTGAAT	TGGTGGGAAA	TACTACCACC	CTTTGTGGAG	AAAATGTGTA	CTGGCTTGGG	7440
	GGAAAAACCA	CAATGAAAGC	CATTGAGTGC	CTGAAACCCA	ACGAGATTTC	GAATGGCAAA	7500
	TTCTCTTACA	CGGACCTACA	CATGGAACAG	ACCGTTACCT	ACTCTTGCAA	CGAGGCTTT	7560

5 CGGCTCGAAG GTCACAGTGC CTTGACCTGT TTAGAGACAG GTGATTGGGA TGTAGATGCC 7620
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 CCTGGCTATG AACTAGAGGG GAACAGGGAA CGTGTCTGCC AGGAGAACAG ACAGTGGAGT 9840
 40 GGAGGGGTGG CAATATGCAA AGAGACACAG TGTGAACATC CACTTGAATT TCTCAATGGG 9900
 AAAGCTGACA TTGAAAAAG GACGACTGGA CCCAACGTGG TATATTCTCT CAACAGAGGC 9960
 TACGCTGTG AAGGGCCATC TGAGGCACAC TGACAGAAA ATGGAACCTG GAGCCACCCA 10020
 GTCCCTCTCT GCAAAACCAA TCCATGCCCT GTTCTCTTTG TGATTCCCGA GAATGCTCTG 10080
 CTGTCTGAAA AGGAGTTTAA TGTGTATCAG AATGTGTCCA TCAATGTAG GGAAGGTTTT 10140
 45 CTGCTGCAGG GCCACGGCAT CATTAACCTGC AACCCGAGC AGACGTGGAC ACAGACAAGC 10200
 GCCAATATGT AAAAAATCTC ATGTGTGTTCA CCACTCAAG TAGAAAAATG AATTGTCTCA 10260
 TCGCTGCTCT ATCAATATGG AGACATGATC ACCTACTCAT GTTACAGTGG ATACATGTTG 10320
 GAGGGTTTTC TGAGGAGTGT TTTGTTAGAA AATGGAACAT GSACATCACC TCCATATTGC 10380
 AGAGCTGTCT GTGATTTTCC ATGTCAAGAT GGGGGCATCT GCCAAGCCCC AATGTCTTGT 10440
 50 TCTGTGTCAG AGGGCTGGAT GGGGCGCCTC TGTGAAGAAC CAATCTGCAT TCTTCCCTGT 10500
 CTGAACGGAG TCTGCTGTGT GGGCCCTTAC CAGTGTGAT GCCGCGCTGG CTGACGGGG 10560
 TCTGCTGTCT ATACAGCTGT TTGCCAGTCT CCTGCTTAA ATGTTGGAAA ATGTGTAAGA 10620
 CCAAACCGAT GTCACTGTCT TTCTTCTTGG ACGGGACATA ACTGTTCCAG GTAA 10674

55 Seq ID NO: C135 DNA Sequence
 Nucleic Acid Accession #: FGENESH predicted
 Coding sequence: 1..390

60 1 11 21 31 41 51
 | | | | |
 ATGAGGTTCAG GTGTCTCAGG CATGAGGACC GACTACCCCA GGAGTGTGCT GGCTCCTGCT 60
 TATGTGTGAG TCTGTCTCCT CCTCTGTGT CCAAGGGAAG TCATCGCTCC CGCTGGCTCA 120
 GAACCATGCG GTGTGCCAGC GGCACCCAGG TGTGGAGACA AGATCTACAA CCCCTTGGAG 180
 CAGTGTCTGT ACAATGACGC CATGTGTGCC CTGAGCGAGA CCCGCCAATG TGGTCCOCCC 240
 65 TGCACTCTCT AGCCCTGCTT TGAGCTCTGC TGTCTTGATT CCTTGGSCCT CACAAAAGAT 300
 TTTGTTGTA AGCTGAAGGT TCAGGGTGTG AATTCCAGT GCCACTCATC TCCCATCTCC 360
 AGTAAATGTG AAGAGGCCCG GATATGTTAG 390

70 Seq ID NO: C136 DNA Sequence
 Nucleic Acid Accession #: BC035671.1
 Coding sequence: 126..1745

75 1 11 21 31 41 51
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 GGCAGCGACT GCGCCCGCTC CCGGCGCGCG GCTCGTCCCG AGAGGAGGCG GCCCGGCCCG 60
 GGCAGCTGCG GCTCGGGATC CGTCGAGGGG AGGCGGAGCT TGCCAAGCTG GCGCCGAGCG 120
 GGGTCATGAT GCCCGCGCCG CGCGCGCGCG GCGCACTGGC GCGGGCTGCC GGGCGGGGCC 180
 TCTTGGCTTT GCTGCTCGCG GTCTCCGCCC CGCTCCGGCT GCAGGCGGAG GAGCTGGGTG 240
 80 ATGGCTGTGG ACACCTTAGT ACTTATCAGG ATAGTGGCAC AATGACATCT AAGAATTATC 300
 CCGGGACCTA CCCCAATCAC ACTGTTTGGG AAAAGACAAT TACAGTACCA AAGGGGAAAA 360
 GACTGATTCT GAGGTTGGGA GATTTGGATA TCGAATCCCA GACCTGTGCT TCTGACTATC 420
 TTCTCTTCAC CAGCTCTTCA GATCAATATG GTCCATACTG TGGAGATATG ACTGTTCCCA 480
 AAGAATCTCT GTTGAACACA AGTGAAGTAA CGTCCGCTT TGAGAGTGGG TCCACATTTT 540
 CTGGCCGGGG TTTTTCCTG ACCTATGCGA GCAGCGACCA TCCAGATTTA ATAACATGTT 600

5 TGGAACGAGC TAGCCATTAT TTGAAGACAG AATACAGCAA ATTCTGCCCA GCTGGTTGTA 660
 GAGACGTAGC AGGAGACATT TCTGGGAATA TGGTAGATGG ATATAGAGAT ACCTCTTTAT 720
 TGTGCAAGGC TGCCATCCAT GCAGGAATAA TTGCTGATGA ACTAGGTGGC CAGATCAGTG 780
 TGCTTCAGCG CAAAGGGATC AGTCGATATG AAGGGATTCT GGCCAATGGT GTTCTTTTGA 840
 GGGATGGTTC CCTGTGAGAC AAGCGATTTT TGTTTACCTC CAATGGTTGC AGCAGATCCT 900
 TGAGTTTGA ACCTGACGGG CAAATCAGAG CTTCTTCCTC ATGGCAGTCG GTCAATGAGA 960
 GTGGAGACCA AGTTCACCTG TCTCCTGGCC AAGCCCGACT TCAGGACCAA GGCCCATCAT 1020
 GGGCTTCGGG CGACAGTAGC AACCAACCACA AACCAAGAGA GTGGCTGGAG ATCGATTGGS 1080
 10 GGGAGAAAAA GAAATAAACA GGAATTAGGA CCACAGGATC TACACAGTCG AACTTCAACT 1140
 TTTATGTTAA GAGTTTGTGT ATGAACCTCA AAAACATAAA TTCTAAGTGG AAGACCTATA 1200
 AAGGAATTGT GAATGATGAA GAAAAGGTGT TTCAGGGTAA CTCTAACTTT CGGGACCCAG 1260
 TGCAAAACAA TTTTCATCCCT CCCATCGTGG CCAGATATGT GCGGGTTGTC CCCCAGACAT 1320
 GGCACCCAGG GATAGCCTTG AAGGTGGAGC TCATTGGTTG CCAGATTACA CAAGGTAATG 1380
 15 ATTCATTGGT GTGGCGCAAG ACAAGTCAAA GCACCAAGTG TTCAACTAAG AAAGAAGATG 1440
 AGACAATCAC AAGGCCCATC CCCTCGGAAG AAACATCCAC AGGAATAAAC ATTACAACGG 1500
 TGGCTATTGC ATGTGTGCTC CTTGTTGTCC TGGTGTGTCG TGGAAATGGG ATCTTTGCAG 1560
 CCTTTAGAAA GAAGAAGAAG AAAGGAAGTC CGTATGGATC AGCAGAGGCT CAGAAAAACAG 1620
 ACTGTTGSA A GCAGATTAA TATCCCTTTG CCAGACATCA GTCAGCTGAG TTTACCATCA 1680
 20 GCTATGATAA TGAGAAGGAG ATGACACAAA AGTTAGATCT CATCACAAAG GATATGGCAG 1740
 GTTAACTCCG TTGACTGCCA AAATAGCATC CCCAACGTGC AGCCCTCCGC ATCTATCAGC 1800
 AGGTGCCCCG GAGTGTATCT CAGAGATGAG GATCGGAACA CCAATGTTCT TCCCAACCTA 1860
 ACACACACAA AGGGCAGTAA ATTAAGTATC TCTTTGTAAG GTACAGTTAC CGATTAACTC 1920
 AGAGATAAAA TATTTTCTTA AAAATATATT TCATTAAACA CCTATGCTGT CTCTATAAAA 1980
 25 AAAAAA AAAA AAAA AAAA AAAA AAAA 2010

Seq ID NO: C137 DNA Sequence
 Nucleic Acid Accession #: Bos sequence
 Coding sequence: 1..1761

30 1 11 21 31 41 51
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 GAGGCGGCCG GCGCCGGGCA GCTGCGGCTC GGGATCCGTC GAGGGGAGGC CGAGCTTGCC 120
 35 AAGCTGGCGC CCACGGGGGT CATGGTGCCC GCGCGCGCGC GCGCGGAGGC ACTGGGCGCG 180
 GCTGCGCGGC GGGGCTCTCT GGCCTTGTCT CCGCGGCTCT CCGCCCGCT CCGGCTGCAG 240
 GCGGAGGAGC TGGGTGATGG CTGTGGACAC CTAGTGACTT ATCAGGATAG TGGCACAAATG 300
 ACATCTAAGA ATTTACCCGG GACCTACCCC AATCACACTG TTTGCGAAAA GACAATTACA 360
 GTACCAAGG GAAAAGAGT GATTCTGAGG TTGGGAGATT TGGATATCGA ATCCAGAGC 420
 40 TGTGCTTCTG ACTATCTTCT CTTCAACAGC TCTTCAGATC AATATGGTCC ATACTGTGGA 480
 AGTATGACTG TTCCCAAGA ACTCTTGTG AACACAAGTG AAGTAACCGT CCGCTTTGAG 540
 AGTGGATCCC ACATTTCTTG CCGGGGTTTT TTGCTGACCT ATGCGAGCAG CGAACATCCA 600
 GATTTAATAA CATGTTTGA ACGAGCTAGC CATTATTTGA AGACAGAATA CAGCAAAATTC 660
 TGCCCGAGCTG GTTGTAGAGA CGTAGCAGGA GACATTTCTG GGAATATGGT AGATGGATAT 720
 45 AGAGATACCT CTTTATTGTG CAAAGCTGCC ATCCATGCAG GAATAATTGC TGATGAACCTA 780
 GGTGGCCAGA TCAGTGTGCT TCAGCGCAAA GGGATCAGTC GATATGAAGG GATTCTGGCC 840
 AATGGTGTTC TTGCGAGGGA TGGTTCCCTG TCAGACAAGC GATTCTGTTT TACCTCAAT 900
 GGTGTCAGCA GATCCTTGAG TTTTGAACCT GACGGGCAAA TCAGAGCTTC TTCTCATGG 960
 CAGTCCGTCT ATGAGAGTGG AGACCAAGTT CACTGGTCTC CTGGCCAAAGC CGGACTTCAG 1020
 50 GACCAAGGCC CATCATGGGC TTGCGGCGAC AGTAGCAACA ACCACAACC ACGAGAGTGG 1080
 CTGAGATGCG ATTTGGGGGA GAAAAGAAA ATAACAGGAA TTAGGACCAC AGGATCTACA 1140
 CAGTCGAACCT CAACTTTTGA TGTAAAGAGT TTTGTGATGA ACTTCAAAA CAATAATTCT 1200
 AAGTGAAGA CCTATAAAGG AATTGTGAAT AATGAAGAAA AGGTGTTTCA GGGTAACCTCT 1260
 AACTTTCGGG ACCCAGTGCA AAACAATTTC ATCCCTCCCA TGGTGGCCAG ATATGTGCGG 1320
 55 GTTGTCCCCC AGACATGGCA CCAGAGGATA GCCTTGAAGG TGGAGCTCAT TGGTTGCCAG 1380
 ATTACACAAG GTAATGATTC ATTGTTGTGG CGCAAGACAA GTCAAGACAC CAGTGTTCAC 1440
 ACTAAGAAAG AAGATGAGAC AATCACAAAG CCCATCCCTC CGGAAGAAAC ATCCACAGGA 1500
 ATAAACATTA CAACGGTGGC TATTCATTTG GTGCTCCTTG TTGTCTGGT GTTTGCTGGA 1560
 ATGGGGATCT TTGCAGCCTT TAGAAGAAG AAGAGAAAG GAAGTCGTA TGGATCAGCA 1620
 60 GAGGCTCAGA AAACAGACTG TTGGAAGCAG ATTAATATC CCTTTGCCAG ACATCAGTCA 1680
 CCGAGTTTGA CCATCAGCTA TGATAATGAG AAGGAGATGA CACAAAAGTT AGATCTCATC 1740
 ACAAGTGATA TGGCAGGTTA A 1761

Seq ID NO: C138 DNA Sequence
 Nucleic Acid Accession #: FGENESH predicted
 Coding sequence: 1..2310

65 1 11 21 31 41 51
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 ATGTTCCAGC GGCAGGAAAG ATTTCTTGAC TTATCTTCAG CTGAAGCAGT GGCAGCTTGG 60
 70 ATATTACATC AACATCCCTGA CATTATTAAC AAAGGTGATG GCTGTGGACA CCTAGTGACT 120
 TATCAGGATA GTGGCACAAT GACATCTAAG AATTATCCCG GGACCTACCC CAATCACACT 180
 GTTTCGAAA AGACAATTAC AGTACCAAG GGGAAAAGAC TGATTCTGAG GTTGGGAGAT 240
 TTGGATATCG AATCCAGAC CTGTGCTTCT GACTATCTTC TCTTCACCAG CTCTTCAGAT 300
 75 CAATATGGA TGCAGAAGGA GGAGGAGACA GAAGTGCTTT GTCTTTCAGT GGCTGGCGCT 360
 CAGAGAGTGG ACATTCCCTGT GCAGCTGTTG CCCAGCTTCC TGAAGGGTGT GAAGGGTCTAT 420
 GCTGATGCAA GAGGTCCATA CTGTGGAAGT ATGACTGTTT CCAAGAACT CTTGTTGAAC 480
 ACAAGTGAAG TAACCGTCCG CTTTGAAGT GGATCCACA TTTCTGGCCG GGGTTTTTTG 540
 CTGACCTATG CGAGCAGCGA CCATCCAGAT TTAATAACAT GTTTGGAACG AGCTAGCCAT 600
 80 TTTTGAAGA CAGAATACAG CAAATTCTGC CCAGCTGGTT GTAGAGAAGT AGCAGGAGAC 660
 ATTTCTGGGA ATATGGTAGA TGGATATAGA GATACCTCTT TATTGTGCAA AGCTGCCATC 720
 TATGACGAAA TAAATGCTGA TGAACCTAGG GGCAGATCA GTGTGCTTCA GCGCAAAGGG 780
 ATCAGTCCAT ATGAAGGGAT TCTGGCCAAAT GGTGTTCTTT CGAGGGATGG TTCCCTGTCA 840
 GACAAAGCAT TTCTGTTTAC CTCCAATGGT TGCAGCAGAT CCTTGAGTTT TGAACCTGAC 900
 GGGCAAAATCA GAGCTTCTTC CTCATGGCAG TCGGTCAATG AGAGTGGAGA CCAAGTTTAC 960

5
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TGGTCTCCTG GCCAAGCCCG ACTTCAGGAC CAAGGCCCAT CATGGGCTTC GGGCGACAGT 1020
AGCAACAACC ACAAAACACG AGAGTGGCTG GAGATOGATT TGGGGGAGAA AAAGAAAATA 1080
ACAGGAATTA GGACCACAGG ATCTACACAG TCGAACTTCA ACITTTATGT TAAGAGTTTT 1140
GTGATGAAC TCAAAAACAA TAATTCTAAG TGGAAGACCT ATAAAGGAAT TGTGAATAAT 1200
GAAGAAAAGG TGTTCAGGG TAACCTTAAC TTTCGGGACC CAGTGCAGAA CAATTTTCATC 1260
CCTCCCATCG TGCCAGATA TGTGCGGGT GTCCCCAGA CATGGCACCA GAGGATAGCC 1320
TTGAAGGTGG AGCTCATTGG TTGCCAGATT ACACAAGGTA ATGATTCAAT GGTGTGGCGC 1380
AAGACAAGT AAAGCACCAG TGTTTCACT AAGAAAGAAG ATGAGACAAT CACAAGGCC 1440
ATCCCTCGG AAGAAACATC CACAGATGCC ATGCCAGTGC AGATTGTCCG AGACCATACC 1500
CAGATGATCT CACAAGGGA GAATCTGGGA CCTGATGAGG GCAAAATACC TTTTAAAGGC 1560
ACAGCGGAAA GCATGGTTAG AGTAGTGT TTGCTGTGGG TTAATGACCT TGGCATGCTG 1620
TTCTTAGCAC ACACACCTGA GGAGGACATT GATCACTACT GTTGAAGCA GATTAATAT 1680
CCCTTTGCCA GACATCAGTC AGCTGAGTTT ACCATCAGCT ATGATAATGA GAAGGAGATG 1740
ACACAAAAGT TAGATCTCAT CACAAGTGAT ATGGCAGATT ACCAGCAGCC CCTCATGATT 1800
GGCACCAGGA CAGTCAAGAG GAAGGGCTCC ACCTTCCGGC CCATGGACAC GGATGCCGAG 1860
GAGGACAGGG TGAGCACCGA TGCCGGCGGC CACTATGACT GCGCCGACGC GGCCGGCCGC 1920
CAGGAGTAGC CGCTGCCCTT GCGGCCCGC GAGCCGAGT ACGCCAGGCC CATCGTGGAG 1980
CGGCAGCTGC TGGCGCCCA CACGTTCTCT GCGCAGAGCG CTTACCGCT CCCAGGGCCC 2040
CAGCCCGGCC ACAAACTCT CCTCTCTCG GCGCGCTTCT CCCCCTAGC GGGTGTGGGC 2100
GCCAGGACG GAGACTATCA AAGGCCACAG AGCGCACAGC CTGCGGACAG GGGCTACGAC 2160
CGGCCCAAG CCTGTAGCGC CTTCGCCACC GAAAGCGGGC ACCCTGACTC TCAGAAAGCC 2220
CCAACGATC CCGGACGAG TGACAGCTAT TCTGCCCCA GAGACTGCCT CACACCCCTC 2280
AACCAGACGG CCATGACTGC CCTTTGTGA 2310
  
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Seq ID NO: C139 DNA Sequence
 Nucleic Acid Accession #: NM_004616.2
 Coding sequence: 180..893

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1 11 21 31 41 51
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ATTTAATGT CCGTGGATAC AGAAATCTCT GCAGCGCAAGT TGCTCCAGAG CATATTGCGAG 120
GACAAGCCTG TAACGAATAG TTAATTCAC GGCATCTGGA TTCCTAATCC TTTTCCGAAA 180
TGGCAGGTGT CTGTGCTCTA ATAAATATT CTATGTTTAC CTTCAACTTC TTGTTCTGGC 240
TATGTGGTAT CTGTGCTCTA GCATTAGCAA TATGGGTACG AGTAAGCAAT GACTCTCAAG 300
CAATTTTGGG TTCTGAAGAT GTAGGCTCTA GCTCCTACGT TGCTGTGGAC ATATTGATTG 360
CTGTAGGTGC CATCATCATG ATTCTGGGCT TCCTGGGATG CTGCGGTGCT ATAAAGAAA 420
GTGCTGCTAT GCTTCTGTG TTTTCTATG GCTTGTCTCT GATCCTGCTC CTGCAGGTGG 480
CGACAGGTAT CCTAGGAGCT GTTTTCAAT CTAAGTCTGA TCGCATTGTG AATGAAATC 540
TCTATGAAA CACAAGCTT TTGAGGSCCA CAGGGGAAAG TGA AAAACAA TTCCAGGAAG 600
CCATAATGT GTTTCAAGAA GAGTTTAAAT GCTGCGGTTT GGTCAATGGA GCTGCTGATT 660
GGGGAATAA TTTTCAACAC TATCTGAAT TATGTGCTG TCTAGATAAG CAGAGACCAT 720
GCCAAGCTA TAATGGA AAAAGTTTACA AAGAGACCTG TATTTCTTTC ATAAAGACT 780
TCTTGGCAAA AATTTGATT ATAGTTATTG GAATATCATT TGGACTGGCA GTTATTGAGA 840
TACTGGGTTT GGTGTTTCT ATGCTCTGT ATTGCCAGAT CGGGAACAAA TGAATCTGTG 900
GATGCTATCA CCTCATGCTA GTCAAACCCC TTAAATATGT TGCTTTGGCT TTGTAATTT 960
AAATATGTAA GTGCTATATA AGTCAGGAGC AGCTGTCTTT TTAATATGTC TCGGCTAGCT 1020
AGACCACAGA TATCTTCTAG ACATATTGAA CACATTTAAG ATTTGAGGGA TATAAGGGAA 1080
AATGATATGA ATGTGTATT TTAATCAAAA TAAAGTAAC TGTTTACGTT AAAAAAATA 1140
AAAAAATA 1159
  
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Seq ID NO: C140 DNA Sequence
 Nucleic Acid Accession #: NM_004617.2
 Coding sequence: 232..840

55
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 65
 70
 75
 80

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1 11 21 31 41 51
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AGCTGAAGCA ACTCCAAGGA CACAGTTTAC AGAAATTTGG TTCTCAGCCC CAAAATACTG 120
ATTGAATTGG AGACAATTAC AAGGACTCTC TGCCCAAAA CCCTTGAAGA GGCCCGCTGA 180
AGGAGGCACT GAGGAGCTTT TGATGTCTGA CCGTGTGCTG ACCACCCAG AATGTGCACT 240
GGGGGCTGTG CCAGATGCCT GGGGGGAGCC CTCAATCCCC TTGCTTTTCT TGGCTTCTCT 300
GCTAACATCC TGTTATTTT TCCTGGAGGA AAAGTGATAG ATGACACGSA CCACCTTTCC 360
CAAGAGATCT GGTTTTTCGG AGGAATATTA GGAAGCGGTG TCTTGATGAT CTTCCCTGCG 420
CTGTGTCTCT TGGGCTGAA GAACAATGAC TGCTGTGGGT GCTGCGGCAA CGAGGGCTGT 480
GGGAAGCGAT TTGCGATGTT CACCTCCAG ATATTGTCTG TGGTTGGAAT CTTGGGAGCT 540
GGATACCTGT TTATCATCTC AGCCATTTC ATCAACRAG GTCCATAATG CCTCATGGCC 600
AATAGTACAT GGGGCTACCC CTTCACGAC GGGGATTATC TCAATGATGA GGCCTTATGG 660
AACAGTGTCC GAGAGCTCT CAATGTGTT CCTTGGATC TGACCTCTCT CTTCCCTCTG 720
CTGTGCTAG GAGGAATCCA GATGTTCTCT TGCGCATCC AGGTGGTCAA TGGCCTCTCT 780
GGGACCTCT GTGGGACTG CAGTGTGTT GGTGCTGTG GGGGAGATGG ACCCGTTTAA 840
ACCTCCGAGA TGAGCTGCTC AGACTCTACA GCATGACGAC TACAATTTCT TTTCTATAAA 900
CTTCTCTCT TCTTGAAT ATTAAATCCT ATCTGCTTCC TAGCTGATAA AGCTTAGAAA 960
AGGCAGTTAT TCTTCTTCT CAACAGCTT TGCTOGAGTT AGAATTTTGT TATTTTCAA 1020
TAAAAATTA TTTGGCACT TAACAAATTT GATTTATAAA TCTTTCAAAT TAGTTCCTTT 1080
TAGAATTTA CCAACAGTT CAAAGCATAC TTTTCATGAT TTTTATTATA CAAATGTAAA 1140
ATGTATAAAG TCACATGTAC TGCCATACTA CTTCCTTTGA TATAAGATG TTTATATCTT 1200
TGGAAGTTT ACATAAATCA AAGGAAGAAA GCACATTTAA AATGAGAAAC TAAGACCAAT 1260
TCTGTGTTT AAGAGGAAA AGAATGATTG ATGTATCTTA AGTATTGTTA TTTGTTGCT 1320
TTTTTGTCT CTTGCTTGA GTTGTCTGTG ACTGATCTT TGAGGCTGTC ATCATGGCTA 1380
GGGTCTCTTT ATGTATGTTA AATTAAACC TGAATTCAGA GGTAACTG 1428
  
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Seq ID NO: C141 DNA Sequence
 Nucleic Acid Accession #: NM_002381.2

Coding sequence: 64..1524

1	11	21	31	41	51	
5	AAATCCGAGC	CTCGCGTGGG	CTCCTGGCCC	CCGACGGACA	CCACCAGGCC	CACGGAGCCC 60
	ACCATGCCGC	GCCCGGCCCC	CGCGCGCCGC	CTCCCGGGAC	TCCTCCTGCT	GCTCTGSCCG 120
	CTGCTGCTGC	TGCCCTCCGC	CGCCCGCGAC	CCCGTGGCCC	GCCCGGGCTT	CCGGAGGCTG 180
	GAGACCCGAG	GTCGCGGGGG	CAGCCCTGGA	CGCGCCCTCT	CTCCTGCGGC	TCCCGACGGC 240
10	GCGCCCGCTT	CGGGGACCAG	CGAGCCTGGC	CGCGCCCGCG	GTGCAGGTGT	TTGCAAGAGC 300
	AGACCCCTTG	ACCTGGTGT	TATCATTGAT	AGTTCTCGTA	CGGTACGGCC	CCTGGAAATC 360
	ACCAAGTGA	AAACTTTTGT	CTCCCGGATA	ATCGACACTC	TGGACATTGG	GCCAGCGGAC 420
	ACGCGGGTGG	CAGTGGTGAA	CTATGCTAGC	ACTGTGAAGA	TGGAGTTCCA	ACTCCAGGCC 480
	TACACAGATA	AGCAGTCCCT	GAAGCAGGCT	GTGGTTCGAA	TCACACCTTT	GTCAACAGGC 540
15	ACCATGTGAG	GCCTAGCCAT	CCAGACAGCA	ATGGACGAAG	CCTTCACAGT	GGAGGCAGGG 600
	GCTCGAGAGC	CCTCTTCTAA	CATCCCTAAG	GTGGCCATCA	TTGTTACAGA	TGGAGGGCCC 660
	CAGGACGAGC	TGAATGAAGT	GGCGGCTCGG	GCCCAAGCAT	CTGGTAATTGA	GCTCTATGCT 720
	GTGGGCGTGG	ACCGGGCAGA	CATGGCGTCC	CTCAAGATGA	TGGCCAGTGA	GCCCTTAGAG 780
	GAGCATGTTT	TCTACGTGGA	GACCTATGGG	GTCAATTGAG	AACTTTCTCT	TAGATTCCAG 840
20	GAACCTCTCT	GTGCGCTGGA	CCCCTGTGTG	CTTGGAAACAC	ACCACTGSCA	GCACGTCTGC 900
	ATCAGTGATG	GGGAAGGCAA	GCACCACTGT	GAGTGTAGCC	AAGGATACAC	CTTGAATGCC 960
	GACAAAGAAA	GCTGTTCAGC	TCTTGATAGG	TGTGCTCTTA	ACACCCACGG	ATGTGAGCAC 1020
	ATCTGTGTGA	ATGACAGAAG	TGGCTCTTAT	CATTGTGAGT	GCTATGAAGG	TTATACCTTG 1080
	AATGAAGACA	GGAAACTTGG	TTCAGCTCAA	GATAAATGTG	CTTTGGGTAC	CCATGGGTGT 1140
25	CAGCACATTT	GTGTGAATGA	CAGAACAGGG	TCCCATCATT	GTGAATGCTA	TGAGGGCTAC 1200
	ACTCTGAATG	CAGATAAAAA	AACTGTTCAC	GTCCGTGACA	AGTGTGCCCT	AGGCTCTCAT 1260
	GGTTGCCAGC	CAATTGTGTG	GAGTGATGGG	GCGGCATCCT	ACCACTGTGA	TTGCTATCCT 1320
	GGCTACACCT	TAAATGAGGA	CAAGAAAACA	TGTTCAAGCA	CTGAGGAAGC	ACGAAGACTT 1380
	GTTTCCACTG	AAGATGCTTG	TGGATGTGAA	GCTACACTGG	CATTCCAGGA	CAAGGTCAGC 1440
30	TCGTATCTTC	AAAGACTGAA	CACATAAATT	GATGACATTT	TGGAGAAGTT	GAATAAATAT 1500
	GAATATGGAC	AAATACATCG	TAAATTTGCT	CCAATTTCTC	ACCTGAAAAT	GTGGACAGCT 1560
	TGGTGTACTT	AATGCTCATG	CATTCTTTTG	CACACCTGTT	ATTGCCAATG	TTCTGTCTAA 1620
	TAAATTTGCC	TTATCTGTAT	TAAATGCTGA	ATATTACTGG	ATAAATTTGA	TGAAGATCTT 1680
	CTGCAGAATC	AGCATGATTT	TTCCAAGGAA	ATACATATGC	AGATACTTAT	TAAGAGCAAA 1740
35	CTTTAGTGTG	GATCAATGAT	GACTGTGAAA	TGATTGGTAG	GAATAGAAAT	GAAGAGTTTA 1800
	GTGTTTCTTT	ATCTACTAAT	TGAGCCATTT	AAATTTTAAA	TGTTTATATT	AGATAACCAT 1860
	ATTCACAATG	GAAGCTTTAG	GTCTAGTTTC	TTTTGATAGT	ATTATAATA	TAAATCAATC 1920
	TTATTACTGA	GAGTGCAAAAT	TGTACAAGGT	ATTACACAT	ACAACTTCAT	ATAACTGAGA 1980
	TGAATGTAAT	TTTGAACGTG	TTAACACTTT	TTGTTTTTTG	CTTATTTTGT	TGGAGTATTA 2040
40	TTGAAGATGT	GATCAATAGA	TTGTAATACA	CATATCTAAA	AATAGTTAAC	ACAGATCAAG 2100
	TGAACATTAC	ATGCGCAATT	TAAATTCATT	CTGGTCTTTG	AAAGAAATGT	ACTACTAAAG 2160
	AGCAGTAGTT	GTGAATTTAG	GGTGTTAAAC	TTTTTACCAA	GTACAAAAT	CCCAATTCCA 2220
	CTTTATTATT	TGCTTTCAGG	ATCCAAGTGA	CAAAGTTATA	TATTTATAAA	ATTGCTATAA 2280
	ATCGACAAAA	TCTAATGTTG	TCTTTTTAAT	GTTAGTGATC	CACCTGCCCT	AGCCTCCCAA 2340
45	AGTGCTGGGA	GATGAGGCTT	GAAGGTCTAA	CTTTTTTTTA	CTTATATATT	TGATACATAT 2400
	AATTTCTTTG	GCTTTGAAAC	TTGCAACTTT	GAGAACAAAA	CAGTCCCTTA	AATTTTGCAC 2460
	TGCTCAATTC	TGTTTTCGCT	TTGCAATTGC	TTTAATATAA	TAAAGTTTAT	TACCTTTACA 2520
	TATTATCATG	TCTATTTTGG	ATGACTCATC	AATTTTGTCT	ATTAAGATA	TTTCTTTAAA 2580
50	TTAAAAAAA	AAAAAAA				2599

Seq ID NO: C142 DNA Sequence
Nucleic Acid Accession #: NM_016639.1
Coding sequence: 40..429

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55	GCGCGCGGCG	CAGACAGCGG	CGGGCGCAGG	ACGTGCACTA	TGGCTCGGGG	CTCGCTCGCG 60
	CGGTGCTGCG	GGCTCCTCGT	GCTGGGGCTC	TGGCTGGCGT	TGCTGCGCTC	CGTGGCGCGG 120
60	GAGCAAGCGC	CAGGCACCGC	CCCCTGCTCC	CGCGGCAGCT	CCTGGAGCGC	GGACCTGGAC 180
	AAGTGCATGG	ACTGCGCGTC	TTGCAGGGCG	CGACCGCACA	GCGACTTCTG	CCTGGGCTGC 240
	GCTGCAGCAC	CTCTGCCCC	CTTCCGGCTG	CTTTGGCCCA	TCCCTGGGGG	CGCTCTGAGC 300
	CTGACCTTGG	TGCTGGGGCT	GCTTTCTGGC	TTTTTGGTCT	GGAGACGATG	CGCGAGGAGA 360
	GAGAAGTTCA	CCACCCCAT	AGAGGAGACC	GGCGGAGAGG	GCTGCCAGCG	TGTGGCGCTG 420
65	ATCCAGTGAC	AATGTGCCCC	CTGCCAGCGG	GGGCTCGCCC	ACTCATCAT	CATTCAATCCA 480
	TTCTAGAGCC	AGTCTCTGCC	TCCAGAGCGC	GGCGGGAGCC	AAGCTCTCTC	AACCACAAGG 540
	GGGGTGGGGG	GCGGTGAATC	ACCTCTGAGG	CCTGGGCCCA	GGGTTGAGGG	GAACCTTCCA 600
	AGGTGCTGCT	TGCCCCTGCC	TCTGGCTCCA	GAACAGAAAG	GGAGCCTCAC	GCTGSCCTCAC 660
	ACAAAACAGC	TGACACTGAC	TAAGGAAGTG	CAGCATTTGC	ACAGGGGAGG	GGGTTGCCCT 720
70	CCTTCTCTAG	GACCTGGGGG	CCAGGCTGAC	TTGGGGGGCA	GACTTGACAC	TAGGCCCCAC 780
	TCACTCAGAT	GTCTGAAAT	TCCACCACGG	GGGTCAACCT	GGGGGCTTAG	GGACCTATTT 840
	TTAACACTAG	GGGCTGGCCC	ACTAGGAGGG	CTGGCCCTAA	GATACAGACC	CCCCCAACTC 900
	CCCAAGCGGG	GGAGGAGATA	TTTATTTTGG	GGAGAGTTTG	GAGGGGAGGG	AGAATTTATT 960
	AATAAAGAA	TCTTTAACTT	TAAAAAAA	AAAAAAA		998

Seq ID NO: C143 DNA Sequence
Nucleic Acid Accession #: NM_001819
Coding sequence: 113..2146

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	AACGCTGCTT	CTCAGCTCTC	TGGAGAGCGT	GGGGCTGGCG	GCTGTCAATT	CCATGCCAGT 180
	GGATAACAGG	AACCACAATG	AAGGAATGGT	GACTCGCTGC	ATCATTGAGG	TCCTCTCAAA 240

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 AAGATTGTGTA AGAGAGCCAG CTGATGCCTC GGAAGCCAC GAGTCTCCA GCAGGGGAGA 420
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 GGATGAGGAG GAGGAGGAGG GAGAGAACTA TCAAAAAGGG GAGCGAGGGG AAGATAGCAG 660
 TGAAGAGAAA CACCTTGAAG AGCCAGGAGA GACACAAAAC GCTTTCTCTA ATGAAAGAAA 720
 GCAGGCTTCA GCTATAAAAA AAGAGGAGTT AGTGGCCAGA TCGGAAACAC ATGCTGCCGG 780
 GCATTCTCAG GAGAAGACAC ATAGCCGAGA GAAGAGTAGC CAGGAGAGTG GAGAGAGGCG 840
 AGGAGAGCCAG GAGATACACC CCCAGGAGTC TAAAGGCCAA CCCCAGAGCC AGGAAGAATC 900
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Seq ID NO: C144 DNA Sequence
 Nucleic Acid Accession #: XM_093082.1
 Coding sequence: 93..1988

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 50 AGACAAACTT GGAAGCTTCA GCTTTGAAAT TGCTCTATGG AGGCTTAAAA GATCCAAAT 300
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 TGCCTAATTC TCCTGGTCAG GTTAGTGTG TGCAAGTGAC CATCCAGAG GGTTCGTGTA 840
 60 AGTGACTGT TGSATCTAAT GTCACTCTCA TCTGCATCTA CACCACCACT GTGGCTTCCC 900
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 AGCAGGCTGA ACTCCAGATT TACTTTTCTC AAGGTGGACA AGCTGTAGCC ATCGGGCAAT 1080
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 65 TGCAGCCAGC AGACAGTGGG ATTTACATCT GCGATGTTAA CAACCCCCCA GACTTTCTCG 1200
 GCCAAACCA AGGCATCTCT AACGTCAAGT TGTGTAGTAA ACCTTCTAAG CCCCCTTGTG 1260
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 AAGAAAACCT CAACCAACC ACCGGGATTT TGGTCATTGG AAATCTGACA AATTTGAAC 1440
 70 AAGGTTATTA CAGTGTACT GCCATCAACA GACTTGGCAA TAGTTCTCTG GAAATCGATC 1500
 TCACTTCTTC ACATCCAGAA GTTGAATCA TTGTTGGGCG CTTGATGGT AGCCTGGTAG 1560
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 AAGAAAGAAA TTCTAAGACC ATCGCGAAC TTGAGCCAA GACAAAGATA AACCAAGGG 1680
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 75 CCATTCATGA GACTGGCCCT GATACCATGC AAGAACCAGA CTATGAGCCA AAGCCTACTC 1800
 AGGAGCCTGC CCCAGAGCTC GCCCAGGAT CAGAGCCTAT GGCAGTGCCT GACCTTGACA 1860
 TCGAGCTGGA GCTGAGGACA GAAACGCACT CGGAATTGGA GCCAGAGCCA GAGCCAGAGC 1920
 CAGAGTCAGA GCCTGGGGTT GTAGTTGAGC CCTTAAGTGA AGATGAAAAG GGAGTGGTTA 1980
 AGGCATAG 1988

Seq ID NO: C145 DNA Sequence
 Nucleic Acid Accession #: FGENESH predicted
 Coding sequence: 1..1242

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CTCATCTGCA	TCTACACCAC	CACGTGTGGC	TCCCGAGAAC	AGCTTTCCAT	CCAGTGGTCT	180
TTCTTCCATA	AGAAGGAGAT	GGAGCCAAAT	TCTTCTCCTT	GGGAGGAGGG	GAAGTGGCCA	240
GATGTTGAGG	CTGTGAAGGG	CACCTTTGAT	GGACAGCAGG	CTGAACCTCA	GATTACTTTT	300
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GATCCAGGTA	ATGCATCTAT	CACATATCTG	CATATGCAGC	CAGCAGACAG	TGGAATTTAC	420
ATCTGCGATG	TTAACAAACCC	CCCAGACTTT	CTCGGCCAAA	ACCAAGGCAT	CCTCAACGTC	480
AGTGTGTTAG	TGAACCTTTC	TAAGCCCTTT	TGTAGCGTTC	AAGGAAGACC	AGAACTGGCC	540
CACACTATTT	CCCTTTCCTG	TCTCTCTGCG	CTTGGAAACAC	CTTCCCCTGT	GTACTACTGG	600
CATAAACTTG	AGGGAAGAGA	CATCGTGCCA	GTGAAAGAAA	ACTTCAACCC	AAACACCGGG	660
ATTTTGTCAT	TTGGAATCTC	GACAAATTTT	GAACAAGGTT	ATTACCACTG	TACTGCCATC	720
AACAGACTTG	GCAATAGTTC	CTCGGAAATC	GATCTCACTT	CTTCACATCC	AGAAGTTGGA	780
ATCATTGTGT	GGGCCTTGAT	TGGTAGCCCTG	GATGCTGCCG	CCATCATCAT	CTCTGTTGTG	840
TGCTTCCGAA	GGAAATAGGC	AAAAGCAAAG	GCAAAAGAAA	GAATTTCTAA	GACCATCGCG	900
GAACCTGAGC	CAATGACAAA	GATAAACCCA	AGGGGAGAAA	GCGAAGCAAT	GCCAAGAGAA	960
GACGCTACCC	AACTAGAAGT	AACCTCTACCA	TCTTCCATTC	ATGAGACTGG	CCCTGTATACC	1020
ATCCAAGAAC	CAGACTATGA	GCCAAAGCCT	ACTCAGGAGC	CTGCCCCAGA	GCCTGCCCCA	1080
GGATCAGAGC	CTATGTCAGT	GCCTGACCTT	GACATCGAGC	TGGAGCTGGA	GCCAGAAACG	1140
CAGTCGGAAT	TGGAGCCAGA	GCCAGAGCCA	GAGCCAGAGT	CAGAGCCTGG	GGTTGTAGTT	1200
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Seq ID NO: C146 DNA Sequence
 Nucleic Acid Accession #: NM_003020.1
 Coding sequence: 29..664

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CCCTGACCCG	GTCTCAGAAG	CAGATATCCA	GAGGCTGCTT	CATGGTGTTA	TGGAGCAATT	180
GGGCATTGCC	AGGCCCCGAG	TGGAATATCC	AGCTCACCAG	GCCATGAATC	TTGTGGGCCC	240
CCAGAGCATT	GAGGTGGAG	CTCATGAAGG	ACTTCAGCAT	TGGGTCTCTT	TTGGCAACAT	300
CCCCAACATC	GTGGCAGAGT	TGACTGGAGA	CAACATTCCT	AAGGACTTTA	GTGAGGATCA	360
GGGTATCCCA	GACCTTCCAA	ATCCCTGTCC	TGTTGGAAAA	ACAGATGATG	GATGCTCTAGA	420
AAACACCCCT	GACATGTCAG	AGTTCACTCG	AGAGTTCCAG	TTGCACCAGC	ATCTCTTTGA	480
TCCGGAACAT	GACTATCCAG	GCTTGGGCAA	GTGGAACAAG	AACTCCTTTT	ACGAGAAGAT	540
GAAGGGAGGA	GAGAGACGAA	AGCGGAGGAG	TGTCAATCCA	TATCTACAAG	GACAGAGACT	600
GGATAATGTT	GTTCGAAGA	AGTCTGTCCC	CCATTTTICA	GATGAGGATA	AGGATCCAGA	660
GTAAGAGAGAA	GATGCTAGAC	GAAACCCAC	ATTACCTGTT	AGGCCTCAGC	ATGGCTTATG	720
TGCAAGTGTA	AATGGAGTCC	CTGTGAATGA	CAGCATGTTT	CTTACATAGA	TAATTATGGA	780
TACAAAGCAG	CTGTATGTAG	ATAGTGTATT	GTCTTCACAC	CGATGATTCT	GCTTTTTGCT	840
AAATTAGAAAT	AGAGGCTTTT	TTGTTTCTTG	GGTTTTTAAA	ATGTGAATCT	GCAATGATCA	900
TAAAAATTAA	AATGTGAATG	TCAACAATAA	AAAGCAAGAC	TATGAAAGGC	TCAGATTTC	960
TGCAAGTTTAA	AATGGTGTCT	GAGGTTGTAC	TATTTGGGCC	AAGTCTGTAG	AAAGCTGTCA	1020
TTTGATTTTG	ATTATGTAGT	TCATCCAGCC	CTTGGGCATT	GTTATACACC	AGTAAAGAAG	1080
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GCAAGCATTG	GC					1152

Seq ID NO: C147 DNA Sequence
 Nucleic Acid Accession #: NM_024021.2
 Coding sequence: 144..806

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ATTOSAGCAC	CTTTTCTGCT	GCCATGACAA	CCATGCAAGG	AATGGAACAG	GCCATGCCAG	180
GGGCTGGCCC	TGGTGTGCC	CAGCTGGGAA	ACATGGCTGT	CATACATTCA	CATCTGTGGA	240
AAGGATTGCA	AGAGAAGTTC	TTGAAGGGAG	AACCCAAAGT	CCTTGGGGTT	GTGCAGATTTC	300
TGACTGCCCT	GATGAGCCTT	AGCATGGGAA	TAACAATGAT	GTGTATGGCA	TCTAATACTT	360
ATGGAAGTAA	CCCTATTTC	GTGTATATCG	GGTACACAAT	TTGGGGGTCA	GTAATGTTTA	420
TTATTTTCAGG	ATCCTTGCTA	ATTGCAGCAG	GAATTAGAAC	TACAAAGGC	CTGGTCCGAG	480
GTAGTCTAGG	AATGAATATC	ACCAGCTCTG	TACTGGCTGC	ATCAGGGATC	TTAATCAACA	540
CATTAGCTT	GGGCTTTTAT	TCAATCCATC	ACCCTTACTG	TAACTACTAT	GGCAACTCAA	600
ATAATTGTCA	TGGGACTATG	TCCATCTTAA	TGGGTCTGGA	TGGCATGGTG	CTCCTCTTAA	660
GTGTGCTGGA	ATTCTGCATT	GCTGTGTCCC	TCTCTGCCCT	TGGATGTAAA	GTGCTCTGTT	720
GTACCCCTGG	TGGGGTTGTG	TTAATTCTGC	CATCACTTC	TCACATGGCA	GAAACAGCAT	780
CTCCACACAC	ACTTAATGAG	GTTTGAGGCC	ACCAAAAGAT	CAACAGACAA	ATGCTCCAGA	840
AATCTATGCT	GACTGTGACA	CAAGAGCCTC	ACATGAGAAA	TTACCAGTAT	CCAACCTCGA	900
TACTGATAGA	CTTGTGATA	TTATTATTAT	ATGTAATCCA	ATTATGAAC	GTGTGTGTAT	960
AGAGAGATAA	TAAATTCAAA	ATTATGTTCT	CATTTTPTTC	CCTGGAACCTC	AATAACTCAT	1020
TTCACTGGCT	CTTTATCGAG	AGTACTAGAA	GTTAAATTAA	TAAATAATGC	ATTATATGAG	1080
GCAACAGCTA	TTGAAGTTT	TTCAATTCATC	ATAAGAACTT	TATATAAAGG	CATTACATTG	1140
GCAATAAAGG	TTTGAAGACA	GAAGAGCAAA	AAAAAGATAT	TGTTAAATG	AGGCCCTCCAT	1200
GCAAAACACA	TACTTCCCTC	CCATTTATTT	AACTTTTTTT	TTCTCCTACC	TATGGGGACC	1260
AAAGTGCTTT	TTCTCTCAGG	AAGTGGAGAT	GCATGGCCAT	CTCCCCCTCC	CTTTTCTCTT	1320
CTCCTGCTTT	TCTTCCCCCA	TAGAAAGTAC	CTTGAAGTAG	CACAGTCCGT	CCTTGTCATGT	1380
GCAAGAGCTA	TCATTGTAGT	AAAAGTATAC	ATGGAGTAAA	AATCATATTA	AGCATCAGAT	1440
TCACTTATATA	TTTTCTATTT	CACTTCTTTC	CTTCCCTTTC	TCCCACCTTC	TACTGGGCAT	1500
AATTATATCT	TAATCATATA	TGGAAATGTG	CAACATATGG	TATTTGTATA	ATACGTTTGT	1560
TTTTATTGCA	GAGCAAAAAT	AAATCAAAAT	AGAAGCAATA	AAAAAATAAA	AAAAAATAAA	1619

Seq ID NO: C148 DNA Sequence
Nucleic Acid Accession #: NM_002091.1
Coding sequence: 56..502

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AGCGTCCCG CTGCTGCGG GCGGAGGGAC CGTGTGACC AAGATGTACC CGCGCGGCAA 180
CCACTGGCG GTGGGCACT TAATGGGAA AAGAGACA GGGAGTCTT CTTCTGTTTC 240
TGAGAGAGG AGCCTGAAG AGCAGCTGAG AGAGTACATC AGGTGGGAAG AAGCTGCAAG 300
GAATTTGCTG GGTCTCATAG AAGCAAAGGA GAACAGAAAC CACCAGCCAC CTCACCCAA 360
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CTTCTGGTTT AAACCTGTTT GCTGTGAACA ATTGTGAAA AGAGTCTTCC AATTAATGCT 720
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TAAAGCTTA AACACAT 797

Seq ID NO: C149 DNA Sequence
Nucleic Acid Accession #: NM_012261.1
Coding sequence: 203..1045

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CACTCCAGCG CGGACTTTGA GGGATTCCCT CTCTGGCGGC CTCTGACGCA GCACAGCCGG 180
CCTCATTCGG GGCAGTCGCA GTATGGATCT CCAAGGAAGA GGGGTCCCCA GCATCGACAG 240
ACTTCGAGTT CTCTGATGT TGTTCATAC AATGGCTCAA ATCATGGCAG AACAAAGAGT 300
GGAAATCTC TCAGGCTTT CCACTAACCC TGAAGAAAGT ATATTGTGG TGCGGGAAAA 360
TGGGACGAG TGCTCATGG CAGAGTTGC AGCCAAATT ATTGTACCTT ATGATGTGTG 420
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TATCTCAGAT TTGTCTTCA GTGAAGAGCA TAAATGCCCA GTGGATGAGC GGGAGCAACT 900
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CGCGATTTAC CAGTCCACC ACAAAATGAC TGCCAACCAAG GTGCAGATCC CTCGGGACAG 1020
ATCCAGTAT AAGCAGATG GCTAGAGGCC GTTAGGCAG CACCCCTAT TCCTGCTCCC 1080
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CATAGCTACA ATCAACAGG CCTGGGTATC TGAGGCTTGC TTGGCTTGTG TCCATGCTTA 1200
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AAAACGACTA ATGTAACATAT GCAGAGTTGT TTGAGCTTCT TCCTGTGCCA GGTCCAAAGT 1680
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TTCTCTGGC 1749

Seq ID NO: C150 DNA Sequence
Nucleic Acid Accession #: NM_003226.1
Coding sequence: 2..226

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TTGGTGTTC AAGCCCTGA CTAGGAAGAC AGAATGCACC TTCTGAGGCA CCTCCAGCTG 240
CCCCTGGAT GCAGGCTGAG CACCTTGCC CGGCTGTGAT TGCTGCCAG CACTGTTTCA 300
CTCAGTTTCT CTGTCCTTT GCTCCCGCA AGCTTCTGC TGAAGTTC TATCTGAGC 360
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Seq ID NO: C151 DNA Sequence
Nucleic Acid Accession #: NM_002993.1
Coding sequence: 64..408

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GGCGTGTG CGCTGCTGCT CTGCTGACG CCGCGGGGCG CCTCGCCAG CGCTGGTCTT 180
GTCTCTGCTG TGCTGACAGA GCTGCGTTGC ACTTGTATTAC GCGTTACGCT GAGAGTAAAC 240

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CAGTAAGAAT AAGAAGGAAG GGTGGGTTTT TTTCCATTTT CTACATGGAT TCCCTACTTT 540
GAAGAGTGTG GGGGAAAGCC TACGCTTCTC CCTGAAGTTT ACAGCTCAGC TAATGAAGTA 600
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CAATTGACCA TATTGTGAGC AAAGAATCAC TGGTTATTAG TCTTTCAATG AATATTGAAT 720
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CTAATATATT CTCTTCTAT GGTTTTAGAT GTTTGATGTC TTCTTAGTAT GGCATAATGT 1080
CATGATTTAC TCATTAAACT TTGATTTTGT ATGCTATTTT TTCACTATAG GATGACTATA 1140
ATTTCTGTCA CTGATAAAT ACTTTAGATA GATGAAGAAG CCAAAAACA GATAAATTCC 1200
TGATTGCTAA TTTACATAGA AATGTATTCT CTGTGTTTTT TAAATAAAG CAAAATTAAC 1260
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Seq ID NO: C152 DNA Sequence
 Nucleic Acid Accession #: NM_005242.2
 Coding sequence: 148..1341

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Seq ID NO: C153 DNA Sequence
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 Coding sequence: 92..1945

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	CAGGCCCGGT	TGCTTCCCG	GACAGGAGGC	AAGAGCATTT	TATCAAGGCG	CTGCCAGAA	480
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30 Seq ID NO: C155 DNA Sequence
Nucleic Acid Accession #: NM_001062.1
Coding sequence: 76..1380

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65 Seq ID NO: C156 DNA Sequence
Nucleic Acid Accession #: NM_004591
Coding sequence: 59..349

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Seq ID NO: C157 DNA Sequence
Nucleic Acid Accession #: NM_013271.1

Coding sequence: 27..809

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Seq ID NO: C158 DNA Sequence
Nucleic Acid Accession #: NM_002245.2
Coding sequence: 183..1193

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Seq ID NO: C159 DNA Sequence
Nucleic Acid Accession #: NM_005472.1
Coding sequence: 93..404

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Seq ID NO: C160 DNA Sequence
Nucleic Acid Accession #: NM_005245.1
Coding sequence: 187..13959

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Seq ID NO: C161 DNA Sequence
 Nucleic Acid Accession #: NM_014220.1
 Coding sequence: 102..710

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30 Seq ID NO: C162 DNA Sequence
Nucleic Acid Accession #: NM_003759.1
Coding sequence: 150..3257

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	TACTTAAAAA	TAAAGTAACT	TTATGTC				7586

Seq ID NO: C163 DNA Sequence
Nucleic Acid Accession #: NM_000958
Coding sequence: 389..1855

1 11 21 31 41 51
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5
10
15
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30
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CGGCACAGCC TCACACCTGA ACGCTGTCCT CCGCAGACG AGACCGGCGG GCACTGCAAA 60
GCTGGGACTC GTCTTTGAAG GAAAAAAT AGCGAGTAAG AAATCCAGCA CCATTCTTCA 120
CTGACCCATC CCGCTGCACC TCTTGTTCCT CAAGTTTTCG AAAGCTGGCA ACTCTGACCT 180
CGGTGTCCAA AAATGCAGAG CCACTGAGAC CGGCTTTGAG AAGCCGAAGA TTTGGCAGTT 240
TCCAGACTGA GCAGGACAAAG GTGAAAGCAG GTTGGAGGCG GGTCCAGGAC ATCTGAGGGC 300
TGACCCCTGG GGCTCGTGAG GCTGCCACCG CTGCTGCCGC TACAGACCCA GCCTTGCACT 360
CCAAGGCTGC GCACCGCCAG CCACTATCAT GTCCACTCCC GGGGTCAATT CGTCCGCCTC 420
CTTGAGCCCC GACCGGCTGA ACAGCCCACT GACCATCCCC GCGGTGATGT TCATCTTCGG 480
GGTGGTGGCG AACCTGGTGG CCATCGTGGT GCTGTGCAAG TCGCGCAAGG AGCAGAAGGA 540
GACGACCTTC TACACGCTGG TATGTGGGCT GGCTGTCAAC GACCTGTTGG GCATTCTTGT 600
GGTGAGCCCG GTGACCATCG CCACGTACAT GAAGGGCCAA TGGCCCGGGG GCCAGCCGCT 660
GTGCGAGTAC AGCACCTTCA TCTGTCTCTT CTTCAGCCTG TCCGCGCTCA GCATCATCTG 720
CGCCATGAGT GTGAGAGCGT ACCTGGCCAT CAACCATGCC TATTTCTACA GCCACTACGT 780
GGACAAGCGA TTGGCGGGCC TCACGCTCTT TGCACTCTAT GCGTCCAACG TGCTCTTTTG 840
CGCGCTGCCC AACATGGGTC TCGGTAGCTC GCGGCTGCAG TACCAGACA CCTGGTGCTT 900
CATCGACTCG ACCACCAACG TGACGGCGCA CGCGGCTAC TCCTACATGT ACGGGGCTT 960
CAGCTCCTTC CTCATTCTCG CCACCGTCTT CTGCAACGTG CTGTGTGCG GCGCGCTGCT 1020
CGCATGCAC CGCAGTTCA TGCGCGCAC CTGCTGGGC ACCGAGCAGC ACCACGCGGC 1080
CGCGCGCGCC TCGGTTGCTT CCGGGGGCCA CCGCGCTGCC TCCCGAGCCT TGCGCGCCT 1140
CAGCGACTTT CGCGCGCGCC GGAGCTTCCG CGGCATCGCG GCGCGCGAGA TCCAGATGGT 1200
CATCTTACTC ATTGCCACCT CCTGGTGGT GCTCATCTCG TCCTCCCGC TCGTGGTGCG 1260
AGTATTCGTC AACCAATTAT ATCAGCCAAG TTTGGAGCGA GAAGTCAGTA AAAATCCAGA 1320
TTTGAGGCC ATCCGAATTG CTCTGTGAA CCCCATCCTA GACCCCTGGA TATATATCCT 1380
CTGAGAAAG ACAGTGTCTA GTAAAGCAAT AGAGAAGATC AAATGCTCTT TCTGCCGAT 1440
TGCGGGTCC CGCAGGGAGC GCTCCGACA GCACTGCTCA GACAGTCAA GGACATCTTC 1500
TGCCATGTCA GGCACCTCTC GCTCCTTCAT CTCGCGGAG CTGAAGGAGA TCAGCAGTAC 1560
ATCTCAGACC CTCCTGCCAG ACCTCTCACT GCCAGACCTC AGTGAATG GCCTTGGAGG 1620
CAGGAATTG CTTCAGGTG TGCTGGCAT GGGCGTGGC CAGGAAGACA CCACCTCACT 1680
GAGGACTTTG CGAATATCAG AGACCTCAGA CTCTTCACAG GGTCAAGACT CAGAGAGTGT 1740
TCTACTGTG GATGAGGCTG GTGGGAGCGG CAGGGCTGGG CCTGCCCTA AGGGGAGCTC 1800
CTGCAAGTC ACATTTCCTA GTGAAACACT GAACTTATCA GAAAAATGTA TATAATAGGC 1860
AAGGAAGAA ATACAGTACT GTTCTGAGC CCTTATAAAA TCCTGTGCAA TAGACACATA 1920
CATGTACAT TTAGCTGTGC TCAGAAGGGC TATCATCA 1958

Seq ID NO: C164 DNA Sequence
Nucleic Acid Accession #: NM_002659.1
Coding sequence: 427..1434

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1 11 21 31 41 51
CAGTATCCCT CCTGACAAAA CTAACAAAA TCCTGTTAGC CAAATAATCA GCCACATTCA 60
TATTTACCGT CAAAGTTTTT ATCCTCATTT TACAGCAGTG GAGAGCGATT GCCCGGGTTC 120
CCAGGTTAGG AAGAGAGAGA ACTGGGATTT GCACCCAGGC AATCTGGGGA CAGAGCTGTG 180
ATCACAACTC CATAGTCAG GCGCGAGCCA GCGGCTTAC CACAGCCGG CCGCGCCCGT 240
GGAAGGAAGT TTGTGGCGGA GAGGTTCTGT ACGGAGGAG GGGGAGGCGC CCACGCACTC 300
GGGCTGAGCT CGCTCTTTTC CAAAACGTCT GGGAGGAGTC CCTGGGGCCA CAAAACGCC 360
TCCTTCTGA GGCCAGAGG AGAGAAGAC TGCAAGGACC CCGCGCACAG GAGCTGCCCT 420
CGCGACATGG GTACCCCGCC GCTGCTCGCG CTGCTGCTGC TGCTCCACAC CTGCGTCCCA 480
GCCCTCTGGG GCTTGGCGTG CATGCACTGT AAGACCAAC GGGATTGCGG TGTGGAAGAG 540
TGCGCCCTGG GACAGGACCT CTGCAGGACC ACGATCGTGC GCTTGTGGGA AGAAGGAGAA 600
GAGCTGGAGC TGGTGGAGAA AAGCTGTACC CACTCAGAGA AGACCAACAG GACCTGAGC 660
TATCGGACTG GCTTGAAGAT CACGAGCCTT ACCGAGGTTG TGTGTGGGTT AGACTTGTGC 720
AACCAGGGCA ACTCTGGCGG GGTGTGCACT TATTCGGA GCGGTTACCT CGAATGCATT 780
TCCTGTGGCT CATCAGACAT GAGCTGTGAG AGGGGCGGCG ACCAGAGCCT CGAGTCCCGC 840
AGCCCTGAAG AACAGTGCCT GGTATGTGGT ACCCACTGGA TCCAGGAAGG TGAAGAAGGG 900
CGTCCAAAGG ATGACCCGCA CCTCCGTGGC TGTGGTACC TTCCCGGCTG CCGGGGCTCC 960
AATGGTTTCC ACAACAACGA CACCTTCCAC TTCTGAAAT GCTGCAACAC CACCAATGC 1020
AACGAGGGCC CAATCTGGGA GCTTGAAAT CTGCGCAGA ATGGCCGCA GTGTTACAGC 1080
TGCAAGGGGA ACAGCACCCA TGGATGCTCC TCTGAAGAGA CTCTCTCAT TGACTGCCGA 1140
GGCCCCATGA ATCAATGTCT GGTAGCCACC GGCATCAAG AACGAAAAA CCAAGCTAT 1200
ATGGTAAGAG GCTGTGCAAC CGCTCAATG TGCCAACATG CCACTCTGGG TGACGCCTTC 1260
AGCATGAACC ACATTGATGT CTCTGCTGT ACTAAAAGT GCTGTAACCA CCCAGACCTG 1320
GATGTCCAGT ACGCAGTGG GGCTGCTCCT CAGCCTGGCC CTGCCCATCT CAGCCTCACC 1380
ATCACCTGC TAATGACTGC CAGACTGTGG GGAGGCACTC TCCTCTGAGC CTAAACCTGA 1440
AATCCCCCTC TCTGCCCTGG CTGGATCCGG GGGACCCCTT TGCCCTCCCT TCGGCTCCCA 1500
GCCCTACAGA CTGCTGTGT GACCTCAGGC CAGTGTGCG ACCTCTCTGG GCCTCAGTTT 1560
TCCCAGCTAT GAAAACAGCT ATCTCAGAA GTTGTGTGAA GCAGAAGAGA AAAGCTGGAG 1620
GAAGGCCGTG GGAATGGGA GAGCTCTGT TATTATTAT ATTGTGCGG CTGTTGTGTT 1680
GTTGTTATTA ATTAATATTC ATATTATTA TTTTATACTT ACATAAAGAT TTTGTACAG 1740
TGG 1743

Seq ID NO: C165 DNA Sequence
Nucleic Acid Accession #: AK027843.1
Coding sequence: 193..1731

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TTGCTTGAGT CATCTTCTGA AGCTTTAAAA ACAATTGATG AATTGGCCTT CAAGATAGAC 60
CTAAATAGCA CATCATGTGT GAATATTACA ACTCGGAAT TGGCTCTCAG CGTATCATCC 120
CTGTATACCA GACAAATGTC AATTTCAAAT TTAGCATTTG GTCTTCCAAG CAATATGAA 180
TCGTATTTC AGATGGATTG TGAGAGTGA CAAGTGGATC CACTGGCATC TGTAATTTTG 240
CCTCCAAACT TACTTGAGAA TTTAAGTCCA GAAGATTCTG TATTAGTTAG AAGAGCACAG 300
TTTACTTTCT TCAACAAAC TGGACTTTTC CAGGATGTAG GACCCCAAG AAAAATCTTA 360
GTGAGTTATG TGATGGCGTG CAGTATTGA AACATTACTA TCCAGATCT GAAGGATCCT 420

5	GTTCAATAA	AAATCAAACA	TACAAGAACT	CAGGAAGTGC	ATCATCCCAT	CTGTGCCTTC	480
	TGGGATCTGA	ACAAAAACAA	AAGTTTTGGA	GGATGGAACA	CGTCAGGATG	TGTTGCACAC	540
	AGAGATTCCAG	ATGCAAGTGA	GACAGTCTGC	CTGTGTAACC	ACTTCACACA	CTTTGGAGTT	600
	CTGATGGACC	TTCCAAGAAAG	TGCCCTACAG	TTAGATGCAA	GAACACTAA	AGTCCTCACT	660
	TTCAATCAGCT	ATATTGGGTG	TGGAATATCT	GCTATTTTTT	CAGCAGCAAC	TCTCCTGACA	720
	TATGTTGCTT	TTGAGAAATT	GCGAAGGGAT	TATCCCTCCA	AAATCTTGAT	GAACCTGAGC	780
	ACAGCCCTGC	TGTTCTGTAA	TCTCCTCTTC	CTCCTAGATG	GCTGGATCAC	CTCCTTCAAT	840
	GTGGATGGAC	TTTGCATTGC	TGTTGCAGTC	CTGTTGCATT	TCTTCCTTCT	GGCAACCTTT	900
10	ACCTGGATGG	GGCTAGAAGC	AATTCACATG	TACATTGCTC	TAGTTAAAGT	ATTTAACACT	960
	TACATTCCGC	GATACATTCT	AAAATTCTGC	ATCATTGGCT	GGGTTTGCC	TGCCTTAGTG	1020
	TGTGCAGTTG	TTCTAGCGAG	CAGAAACAAC	AATGAAGTCT	ATGGAAGA	AAGTTATGGG	1080
	AAAGAAAAAG	GTGATGAATT	CTGTTGGATT	CAAGATCCAG	TCATATTTTA	TGTGACCTGT	1140
	GCTGGGATTT	TTGAGTCAT	GTITTTTCTG	AACATTGCCA	TGTTCAATTG	GGTAATGGTG	1200
	CAGATCTGTG	GGAGGAATGG	CAAGAGAAGC	AACCGGACCC	TGAGAGAAGA	AGTGTAAAGG	1260
15	AACTGCGCA	GTGTGGTTAG	CTTGACCTTT	CTGTGGGGCA	TGACATGGGG	TTTTGCATTG	1320
	TTTGCCCTGG	GACCCTTAAA	TATCCCTTTC	ATGTACCTCT	TCTCCATCTT	CAATTCAATTA	1380
	CAAGGCTTAT	TTATATTTCAT	CTTCCACTGT	GCTATGAAGG	AGAATGTTC	GAAACAGTGG	1440
	CGGCGGCATC	TCTGCTGTGG	TAGATTTCGG	TTAGCAGATA	ACTCAGATTG	GAGTAAGACA	1500
20	GCTACCAATA	TCTCAAGAAA	AAGTTCTGAT	AATCTAGGAA	AATCTTTGTC	TTCAAGCTCC	1560
	ATTGGTTCCA	ACTCAACCTTA	TCTTACATCC	AAATCTAAAT	CCAGCTCTAC	CACCTATTTC	1620
	AAAAGGAATA	GCACACAGAA	TAATGTCTCC	TATGAGCATT	CCTTCAACAA	AAGTGGATCA	1680
	CTCAGACAGT	GCTTCCATGG	ACAAGTCCTT	GTCAAACTG	GCCCCATGCT	ATGGAGATCA	1740
	AACATCAATC	ATCCCTGTCC	ATCAGGTCAT	TGATAAGGTC	AAGGGTTATT	GCAATGCTCA	1800
25	TTCAAGACAA	TTCTATAAAA	ATATTATCAT	GTCAAGACCC	TTCAAGCCACA	GCACAAAGTT	1860
	TTAATGTCTT	TAGAAAAAG	AAATCAATCT	GCAGAAATGT	GAAGATTTCG	AAGCAGTGTG	1920
	AACGCAACT	AGTGTGTAA	ATGTGCTATT	ACCTAGGTAA	CTGCATATAT	ATAAGGAATG	1980
	TATTTTGTTA	AGAAGGCTTT	TGTGAAATTC	AGAATTTTTC	TTTTTAATAT	ATTTCTTCCA	2040
	TGGAAGAGTT	GTATCATCTA	AAACTTTCAGT	ACTGAGAGTA	ACATGACTCA	GTAGCCACAG	2100
30	AAGCTATGAT	TTGTAAAAATA	TATAATTGAA	TCAGAGTAAT	CATAATGCAG	GGGAGACATT	2160
	CAAAATTAGAG	ACAGGGGAGA	AGCAATGCTG	AGGAAGACCC	TAGATAGAGC	TCATTTTACT	2220
	CCACTTAATC	GTATATCTG	GATATACCCA	TTTTCTGCAT	CTTCTTTCTC	AACAATAAAC	2280
	TGTCCTTGCT	TTGAGACATT	TAAGACATTT	CCTAAAGCAC	AAATAAAAGC	CTCGTATTTC	2340
	CCCATGAGAA	GTITTTGTCC	AAGGAATATG	AAGTGAGACA	TATGGGTGAG	TCATAATAAT	2400
35	CAAAATAAAT	TATGAAGAGC	TGGGTCTGCA	ATAGCTAGTC	TAAAAACTAC	TTGTTGTCTA	2460
	GTCTCTGTGT	TATAGTATAT	AAGAGCCTGA	GGAGGTCTGG	CAAGATAGAT	GGTGTATTAT	2520
	TTATGCAACT	GGCTGTGCA	TACAAACCTT	GCATACTATT	ATGCAGCTTA	CCTAACTCTC	2580
	AGACTATTCT	GAGTAATGCT	TGCTTGCTAA	TGAATGTATA	GGAGACCACA	TTGTAATTGT	2640
	TCTTAGATGA	TGGAGTCCAT	GCAGTTTCTT	AGAAATCGGT	CTCAGTGATC	GCTGTGCTTT	2700
40	TTCAATTTTG	CTCTGGGTTA	TCTGGGAAGT	ATCAGGTTCT	GGGAGGCAAC	AGCATTTAAGT	2760
	GATAAGAAATA	GGAGACATTC	TGGCAAGGCC	AATCTGCTTA	AAGGCAAGT	CCAGAACCTG	2820
	GAACCTAGAG	GCCTTTCTCT	CTGCACGAAA	AACAGGTAGT	TTGCAGTCTG	AGATATGGGA	2880
	GAGCTTTTAG	GCTACACAGC	AACCAAGGGG	ACCTCTCACC	TTTTGCTGAG	CTTCAATCAG	2940
	GAAGCTATTT	GCCTGGCTCC	AGCAGATGAT	GAGATAATGA	GGTAGTGGGT	TTTTTATTAC	3000
45	TGTTCCATT	TGCAACATCC	TGCAACACCA	TCTCGGAGA	CAAGAGCATT	ACCCAGCTTG	3060
	GCTTTCACGG	GGGAGGGTTG	TATTCAGT				3088

Seq ID NO: C166 DNA Sequence
Nucleic Acid Accession #: NM_000574.1
Coding sequence: 66..1211

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	GCGCCATGAC	CGTGGCGCGG	CGAGCGGTGC	CCGCGGCGCT	GCCCTCTCTC	GGGAGGCTGC	120
55	CCCGGCTGCT	GCTGCTGGTG	CTGTTGTGCC	TGCGGCGCGT	GTGGGGTGAC	TGTGGCCTTC	180
	CCCGAGATGT	ACCTAATGCC	CAGCCAGCTT	TGGAAGGCGG	TACAAGTTTT	CCGAGGATA	240
	CTGTAATAAC	GTACAAATGT	GAAGAAAGCT	TTGTGAAAT	TCTTGGCGAG	AAGGACTCAG	300
	TGATCTGCCT	TAGGGGCACT	CAATGGTCAG	ATATTGAAGA	GTCTTGCAAT	CGTAGCTGCG	360
60	AGGTGCCAAC	AAGGCTAAAT	TCTGCATCCC	TCAAAACGCC	TTATATCACT	CAGAATTATT	420
	TTCCAGTCGG	TACTGTGTGT	GAATATGAGT	GCGTCCAGG	TTACAGAAGA	GAACCTTCTC	480
	TATCAACAAA	ACTAACTTGC	CTTCAGAAAT	TAAATGGTTC	CACAGCAGTC	GAATTTTGTA	540
	AAAAGAAATC	ATGCCCTAAT	CCGGGAGAAA	TACGAAATGG	TCAGATTGAT	GTACCAGGTG	600
	GCATATTATT	TGGTGCAACC	ATCTCCTTCT	CATGTAACAC	AGGGTACAAA	TTATTGGGCT	660
65	CGACTTCTAG	TTTTTGTCTT	ATTTCAAGCA	GCTCTGTCCA	GTGGAGTGAC	CCGTTGCCAG	720
	AGTGACAGAA	AAATTTATGT	CCAGCACCAC	CACAAATTGA	CAATGGAATA	ATTCAAGGGG	780
	AACTGTAGCA	TTATGGATAT	AGACAGTCTG	TAACTATGTC	ATGTAATAAA	GGATTCACCA	840
	TGATTGGAGA	GCACTCTATT	TATTGTACTG	TGAATAATGA	TGAAGGAGAG	TGGAGTGGCC	900
	CACCACCTGA	ATGCAGAGGA	AAATCTCTAA	CTTCCAAGGT	CCCACCAACA	GTTCAGAAAC	960
70	CTACCACAGT	AAATGTTCCA	ACTACAGAAG	TCTCACCAAC	TTCTCAGAAA	ACCAACACAA	1020
	AAACACCAC	ACCAATGCT	CAAGCAACAC	GGAGTACACC	TGTTTCCAGG	ACCAACCAAGC	1080
	ATTTTCATGA	AACAAACCCA	AATAAAGGAA	GTGGRAACAC	TTCAAGTACT	ACCCGTCCTC	1140
	TATCTGGGCA	CACGTGTTTC	ACGTTGACAG	GTGTGCTTGG	GACGCTAGTA	ACCATGGGCT	1200
	TGCTGACTTA	GCCAAAGAA	AGTTAAGAA	AAAATACACA	CAAGTATACA	GACTGTCTCT	1260
75	AGTTTCTTAG	ACTTATCTAG	ATATTGGATA	AAATAAATGC	AATGTGTCTC	TTCAATTAGG	1320
	ATGCTTTTAT	TGCTTTTAA	ATGTGTTAGG	AATGTCAACA	GAGCAAGGAG	AAAAAAGGCA	1380
	GTCTGGAAAT	CACATCTTTA	GCACACCTAC	ACCTCTTGAA	AATAGAACA	CTTGCAGAAT	1440
	TGAGAGTGTAT	TCCTTTCTTA	AAAGTGTAA	AAAGCATAGA	GATTTGTTCT	TATTTAGAAT	1500
	GGGATCACGA	GGAAAGAGAA	AGGAAAGTGA	TTTTTTTCCA	CAAGATCTGT	AATGTTATTT	1560
80	CCACTATATA	AGGAATATAA	AAATGAAAAA	CATTATTTGG	ATATCAAAAG	CAATAAAAAA	1620
	CCCAATTCAG	TCTCTCTTAA	GCAAAATTCG	TAAAGAGAGA	TGAACCATAT	TATAAAGTAA	1680
	TCTTTGGCTG	TAGGCATTTT	TCACTTTTCC	TTCGGGTTGG	CAAAATATTT	TAAAGGTAAA	1740
	ACATGCTGTT	GAACCAAGGG	TGTTGATGTT	GATAAGGGAG	GAATATAGAA	TGAAGAGACTG	1800
	AACTCTCTCT	TGTTGACAAA	ATAGAGTTTG	GAAAAAGCCT	GTGAAAGGTT	TCTTCTTTGA	1860
	CTTAATGTCT	TAAAAAGTAT	CCAGAGATAC	TACAATATTA	ACATAAGAAA	AGATTATATA	1920

TTATTCTGA ATCGAGATGT CCATAGTCAA ATTGTAAAT CTTATTCTTT TGTAATATTT 1980
 ATTTATATTT ATTTATGACA GTGAACATTG TGATTTTACA TGTAACAAAC GAAAGATTGA 2040
 AGAAGATATG TGAAGAAAAA TGTATTTTTC CTAAATAGAA ATAAATGATC CCATTTTGTG 2100
 GT 2102

Seq ID NO: C167 DNA Sequence
 Nucleic Acid Accession #: Eos sequence
 Coding sequence: 1..2651

10 1 11 21 31 41 51
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 ATGGACACCT CCCGGCTCGG TGTGCTCCTG TCCTTGCCCTG TGCTGCTGCA GCTGGCGACC 60
 GGGGGCAGCT CTCCCAGGTC TGGTGTGTTG CTGAGGGGCT GCCCCACACA CTGTCAATTGC 120
 GAGCCCGACG GCAGGATGTT GCTCAGGGTG GACTGCTCCG ACCTGGGGCT CTGCGAGCTG 180
 15 CCTTCCAACC TCAGCGTCTT CACCTCCTAC CTAGACCTCA GTATGAACAA CATCAGTCAG 240
 CTGCTCCCGA ATCCCCTGCC CAGTCTCCGC TTCCTGGAGG AGTTACGTCT TCGGGGAAAC 300
 GCTCTGACAT ACATTCCCAA GGGAGCATTG ACTGGCCTTT ACAGTCTTAA AGTTCTTATG 360
 CTGCAGAATA ATCAGCTAAG ACACGTACCC ACAGAAGCTC TGCAGAATTT GCGAAGCCTT 420
 CAATCCCTGC GTCTGGATGC TAACCACATC AGCTATGTGC CCCCAGCTG TTTCACTGGC 480
 20 CTGCATTCCC TGAGGACACT GTGGCTGGAT GACAATGCGT TAACAGAAAT CCCCGTCCAG 540
 GCTTTTGAAG GTTTATCGGC ATTGCAAGCC ATGACCTTGG CCCTGAACAA AATACACCAC 600
 ATACAGACT ATGCCCTTGG AAACCTCTCC AGCTTGGTAG TTCTACATCT CCATAACAAT 660
 AGAATCCCT CCCCTGGGAAA GAAATGCTTT GATGGGCTCC ACAGCCTAGA GACTTTAGAT 720
 25 TTAATTTACA ATAACTTGA TGAATTCCTC ACTGCAATTA GGACACTCTC CAACCTTAAA 780
 GAACACATT TCTATGACAA TCCCATCCAA TTTGTTGGGA GATCTGCTTT TCAACATTTA 840
 CCTGAACCTA GAACACTGAC TCTGAATGGT GCCTCACAAA TAACTGAATT TCCTGATTTA 900
 ACTGGAACCT CAACCTGGA GAGTCTGACT TTAAGTGGAG CACAGATCTC ATCTCTTCTC 960
 CAACCGTCT CCAATCAGTT ACCTAATCTC CAAGTGCTAG ATCTGTCTTA CAACCTATTA 1020
 30 GAAGATTTAC CCAATTTTTC AGTCTGCCAA AAGCTTCAGA AAATTGACCT AAGACATAAT 1080
 GAAATCTACG AAATTAAGT TGACACTTTC CAGCAGTTGC TTAGCCTCCG ATGCTGAAAT 1140
 TTGCTTTGGA ACAAAATTGC TATTATTAC CCCTAATGCAT TTTCACCTTT GCCATCCCTA 1200
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 TTAACCTACT TAAATTAAC AGGAAATCAT GCCTTACAGA GCTTGATATC ATCTGAAAAC 1320
 35 TTTCCAGAAC TCAAGGTAT TGAATGCTCT TATGCTTACC AGTGTCTGTC ATTTGGAGTG 1380
 TGTGAGAATG CCTATAAGAT TTCTAATCAA TGAATAAAG GTGACAACAG CAGTATGGAC 1440
 GACCTTCATA AGAAAGATGC TGAATGTTT CAGGCTCAAG ATGAACGTGA CCTTGAAGAT 1500
 TTCTCTCTTG ACTTTGAGGA AGACCTGAAA GCCCTTCATT CAGTGCAGTG TTCACCTTCC 1560
 CCAGGCCCTT TCAACCTCTG TGAACACCTG CTGATGGCT GGCTGATCAG AATTGGAGTG 1620
 40 TGGACCATAG CAGTCTGGGC ACTTACTTGT AATGCTTTGG TGACTTCAAC AGTTTTTACA 1680
 TCCCCTCTGT ACATTTCCCT CATTAAACTG TTAATTGGGG TCATGCGAGC AGTGAACATG 1740
 CTCACGGGAG TATCCAGTGC CGTGTGGATG GGTGTGGATG CGTTCACCTT TGGCAGCTTT 1800
 GCACGACATG GTGCTGGTG GGAAGATGGG GTTGGTTGCC ATGTCAITGG TTTTGTGTC 1860
 ATTTTCTCT CAGAAATCAT TGTTTCTCTG CTACTCTGG CAGCCCTGGA CGGTGGGTTT 1920
 45 TCTGTGAAT ATTCTGCAA ATTTGAAAG AAAGCTCCAT TTTCTAGCCT GAAAGTAAATC 1980
 ATTTTGTCT GTGCTCTGCT GGCTTGACC ATGGCCGCGG TTCCCTGCTT GGGTGGCAGC 2040
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 TACATGCTG CTCTCATCTT GCTCAATTC CTGTGCTTCC TCATGATGAC CATTCCTCAT 2160
 ACCAAGCTT ATGCAATTT GACAAGGGA GACCTGGAGA ATATTGGGA CTGCTCTATG 2220
 50 GTAAACACA TTGCCCTGTT GCTCTTCACC AACTGCATCC TAACTGCCC TGTGGCTTTC 2280
 TTGCTCTCT CCTCTTAAT AAACCTTACA TTTATCAGTC CTGAAGTAAT TAAGTTTATC 2340
 CTTCTGTTG TAGTCCACT CTCTGCATGT CTCATCCCC TTCTCTACAT CTGTGTTCAAT 2400
 CCTCACTTA AGGAGGATCT GGTGAGCCTG AGAAGCAAAA CCTACGCTG GACAAGATCA 2460
 AAACACCCAA GCTTGATGTC AATTAACTCT GATGATGTCG AAAAACAGTC CTGTGACTCA 2520
 55 ACTCAGCCT TGGTAACCTT TACCAGCTCC AGCATCACTT ATGACCTGCC TCCCAGTTCC 2580
 GTGCCATCAC CAGCTTATCC AGTGACTGAG AGCTGCCATC TTTCTCTGT GGCATTGTGC 2640
 CCATGCTCTTA A 2651

Seq ID NO: C168 DNA Sequence
 Nucleic Acid Accession #: NM_003667.2
 Coding sequence: 49..2772

60 1 11 21 31 41 51
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 TGCTGCTCTC CGCCCGGCTC CGGCTCGTGG CCCCCTACTT CGGGCACCAT GGACACCTCC 60
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 CCCAGGCTG GTGTGTTGCT GAGGGGCTGC CCCACACACT GTCATTGCGA GCCCGACGGC 180
 AGGATGTGTC TCAGGGTGGG CTGCTCCGAC CTGGGGCTCT CGGAGCTGCC TTCCAACCTC 240
 AGCGTCTTCA CCTCTACCT AGACCTCAGT ATGAACAACA TCAGTCAGCT GCTCCGAAAT 300
 70 CCCCCTGCCA GTCTCCGCTT CTTGAGGAG TTAAGTCTTG CGGGAACGCG TCTGACATAC 360
 ATTCCTCAAG GAGCATTCAC TGGCCTTTAC AGTCTTAAAG TTCTTATGCT GCAGATAAAT 420
 CAGCTAAGAC ACGTACCCAC AGAAGCTCTG CAGAATTTGC GAAGCCTTCA ATCCCTGCGT 480
 CTGGATGCTA ACCACATCAG CTATGTGCCC CCAAGCTGTT TCAGTGGCCT GCATTCCCTG 540
 AGGCACCTGT GGCTGGATGA CAATGCGTTA ACAGAAATCC CGTCCAGGC TTTTGAAGT 600
 75 TTATCGCAT TGCAAGCCAT GACCTTGGCC CTGAACAAAA TACACCACAT ACCAGACTAT 660
 GCCTTTGAAA ACCTCTCCAG CTGTGATGTT CTACATCTCC ATAAACAATG AATCCACTCC 720
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 CATAGCAACA ATATCAGTGT GATACCTGAG AAAGCATTTG TAGGCAACCC TTCTCTTAT 900
 80 ACAATACATT TCTATGACAA TCCCATCCAA TTTGTTGGGA GATCTGCTTT TCAACATTTA 960
 CCTGAACATA GAACACTGAC TCTGAATGGT GCCTCACAAA TAACTGAATT TCCTGATTTA 1020
 ACTGGAACCT CAACCTGGA GAGTCTGACT TTAAGTGGAG CACAGATCTC ATCTCTTCTC 1080
 CAAACCGTCT GCAATCAGTT ACCTAATCTC CAAGTGCTAG ATCTGTCTTA CAACCTATTA 1140
 GAAGATTTAC CAGTTTCTTC AGTCTGCCAA AAGCTTCAGA AAATTGACCT AAGACATAAT 1200
 GAAATCTACG AAATTAAGT TGACACTTTC CAGCAGTTGC TTAGCCTCCG ATGCTGAAAT 1260

5	TTGGCTTGGG	ACAAAATTGC	TATTATTAC	CCCAATGCAT	TTTCCACTTT	GCCATCCCTA	1320
	ATAAGCTGG	ACCTATCGTC	CAACCTCCCTG	TCGCTCTTTT	CTATACTGG	GTTACATGGT	1380
	TTAACTCACT	TAAAATTAA	AGGAAATCAT	GCCTTACAGA	GCTTGATATC	ATCTGAAAA	1440
	TTTCCAGAAC	TCAAGTTAT	AGAAATGCCT	TATGCTTACC	AGTGCTGTGC	ATTTGGAGTG	1500
	TGTGAGATG	CCTATAAGAT	TTCTAATCAA	TGGAATAAAG	GTGACACAG	CAGTATGGAC	1560
	GACCTTCATA	AGAAAGATGC	TGGAATGTTT	CAGGCTCAAG	ATGAACGTGA	CCTTGAAGAT	1620
	TTCTGCTTG	ACTTTGAGGA	AGACCTGAAA	GCCCTTCATT	CAGTGCAGTG	TTACCTTCC	1680
	CCAGGCCCC	TCAAAACCTG	TGAACACCTG	CTTGATGGCT	GGCTGATCAG	AATTGGAGTG	1740
10	TGGACCATAG	CAGTTCTGGC	ACTTACTTGT	AATGCTTTGG	TGACTTCAAC	AGTTTTTACA	1800
	TCCTCTCTGT	ACATTTCCCC	CATTAAACTG	TTAATTGGGG	TCATCGCAGC	AGTGAACATG	1860
	CTCACGGGAG	TCTCCAGTGC	CGTGTGGCT	GGTGTGGATG	CGTTCACTTT	TGGCAGCTTT	1920
	GCACGACATG	GTGCCTGGTG	GGAGAAATGG	GTTGGTTGCC	ATGTCATTGG	TTTTTTGTCC	1980
	ATTTTTGCTT	CAGAATCATC	TGTTTTCTCT	CTTACTCTGG	CAGCCCTGGA	GCGTGGGTTT	2040
15	TCGTGAAAT	ATTCTGCAAA	ATTTGAAACG	AAAGCTCCAT	TTTCTAGCCT	GAAGTAATC	2100
	ATTTTGCTCT	GTGCCCTGCT	GGCCTTGACC	ATGGCCGCG	TTCCCTGCT	GGGTGGCAGC	2160
	AAGTATGGCG	CCTCCCTCT	CTGCCCTGCT	TGCTCTTTG	GGGAGCCAG	CACCATGGGC	2220
	TACATGGTGG	CTCTCATCTT	GCTCAATTC	CTTTGCTTCC	TCATGATGAC	CATTGCCTAC	2280
	ACCAAGCTCT	ACTGCAATTT	GGACAAGGGA	GACCTGGAGA	ATATTGGGA	CTGCTCTATG	2340
20	GTAAACACA	TGCCCCGTGT	GCTCTTCACC	AACCTGCATC	TAACTGCC	TGTGGCTTTT	2400
	TTGCTCTCT	CCTCTTAAAT	AAACCTTACA	TTTATCAGTC	CTGAAGTAAT	TAAGTTTATC	2460
	CTTCTGGTGG	TAGTCCCACT	TCCTGCATGT	CTCAATCCCC	TTCTCTACAT	CTTGTCTCAAT	2520
	CCTCACTTTA	AGGAGGATCT	GGTGAGCCTG	AGAAAGCAAA	CCTACGCTCTG	GACAAAGTCA	2580
	AAACACCCAA	GCTTGATGTC	AATTAACCTCT	GATGATGTCG	AAAAACAGTC	CTGTGACTCA	2640
25	ACTCAAGCCT	TGGTAACCTT	TACCAGCTCC	AGCATCACTT	ATGACCTGCC	TCCAGTTTCC	2700
	GTGCCATCAC	CAGCTTATCC	AGTGACTGAG	AGCTGCCATC	TTCTCTCTGT	GGCATTGTCT	2760
	CCATGCTCT	AATTAATATG	TGAAGGAAAA	TGTTTTCAAA	GGTTGAGAAC	CTGAAAAATG	2820
	GAGATTGAGT	ATATCAGAGC	AGTAATTAAT	AAGAAGAGCT	GAGGTGAAAC	TCGGTTTAAA	2880

30 Seq ID NO: C169 DNA Sequence
Nucleic Acid Accession #: NM_003506.1
Coding sequence: 259..2379

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	CTCATTTTCA	GGAAAGCCTG	AAAATGAGTA	AAATAGTGAA	ATGAGGAATT	TGAACATTTT	180
	ATCTTTGGAT	GGGGATCTTC	TGAGGATGCA	AAGAGTGATT	CATCCAAGCC	ATGTGGTAAA	240
40	ATCAGGAAT	TGAAGAAAAT	GGAGATGTTT	ACATTTTGT	TGACGTGTAT	TTTTCTACCC	300
	CTCCTAAGAG	GGCACAGTCT	CTTCACTGT	GAACCAATTA	CTGTTCCAG	ATGTATGAAA	360
	ATGGCCTACA	ACATGACGTT	TTCCCTAAAT	CTGATGGGTC	ATTATGACCA	GAGTATTGCC	420
	GCGGTGGAAA	TGGAGCATTT	TCTTCTCTCT	GCAATCTGG	AATGTTCACC	AAACATTGAA	480
	ACTTTCCTCT	GCAAGGCAAT	TGTACCAACC	TGCATAGAAC	AAATTCATGT	GGTTCACCTT	540
45	TGTCTGTAAC	TTTGTGAGAA	AGTATATTCT	GATTGCAAAA	AATTAATTGA	CACTTTGGGG	600
	ATCCGATGGC	CTGAGGAGCT	TGAATGTGAC	AGATTACAAT	ACTGTGATGA	GACTGTTCTT	660
	GTAACCTTTG	ATCCACACAC	AGAAITTTCT	GGTCTCAGA	AGAAACAGA	ACAAGTCCAA	720
	AGAGACATTG	GATTTTGGTG	TCCAAGGCAT	CTTAAGACTT	CTGGGGGACA	AGGATATAAG	780
	TTTCTGGGAA	TGACCAAGTG	TGCGCTTCCA	TGCCCAACA	TGTAATTTAA	AAGTGATGAG	840
50	CTAGAGTTTG	CAAAAAGTTT	TATTGGAACA	GTTTCAATAT	TTTGTCTTTG	TGCAACTCTG	900
	TTCACTATCC	TACTTTTTTT	AATGTATGTT	AGAAGATTCA	GATACCCAGA	GAGACCAATT	960
	ATATATTACT	CTGTCTGTTA	CAGCATTGTA	TCTCTATGT	ACTTCATTGG	ATTTTTGCTG	1020
	GGGATAGCA	CAGCTTCAAA	TAAGGCAGAT	GAGAAGCTAG	AACTTGGTGA	CAGTGTGTCT	1080
	CTAGGCTCTC	AAAATAAGGC	TTGACCGTTT	TTGTTCATGC	TTTTGTATTT	TTTCACAATG	1140
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	GGAGTTTGCT	TGTTTGGCCT	TTATGACCTG	GATGCTTCTC	GCTACTTTGT	ACTCTTGCCA	1380
	CTGTGCCTTT	GTGTGTTTGT	TGGGCTCTCT	CTTCTTTTAG	CTGGCATTAT	TTCTCTAAAT	1440
60	CATGTTTCAG	AAGTGTATACA	ACATGATGGC	CGGAACCAAG	AAAAACTAAA	GAAATTTATG	1500
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	CGTCAGTACC	ATATCCCATG	TCCTTATCAG	GCAAAAGCAA	AAGCTCGACC	AGAATTGGCT	1680
	TTATTTATGA	TAAAATACCT	GATGACATTA	ATTGTTGGCA	TCTCTGCTGT	CTTCTGGGTT	1740
65	GGAAGCAAAA	AGGAGTGAC	AGAATGGGCT	GGGTTTTTTA	AACGAAATCG	CAAGAGAGAT	1800
	CCAATCAGTG	AAAGTCGAAG	AGTACTACAG	GAATCATGTG	AGTTTTTCTT	AAAGCACAAT	1860
	TCTAAAGTTA	AACACAAAAA	GAAGCACTAT	AAACCAAGTT	CACACAAGCT	GAAGGTCATT	1920
	TCCAAATCCA	TGGGAACCAAG	CACAGGAGCT	ACAGCAAAAT	ATGGCACTTC	TGCAGTAGCA	1980
	ATTACTAGCC	ATGATTACCT	AGGACAGAA	ACTTTGACAG	AAATCCAAAC	CTCACCAGAA	2040
70	ACATCAATGA	GAGAGGTGAA	AGCGGACGGA	GCTAGCACCC	CCAGGTTAAG	AGAACAGGAC	2100
	TGTGGTGAAC	CTGCCCTGCC	AGCAGCATCC	ATCTCCAGAC	TCTCTGGGGA	ACAGGTGAC	2160
	GGGAAGGGCC	AGGCGGCGAG	TGTATCTGAA	AGTGCGCGGA	GTGAAGGAAG	GATTAGTCCA	2220
	AAGAGTGATA	TACTGTACAC	TGGCCTGGCA	CAGAGCAACA	ATTTCAGAGT	CCCCAGTTCT	2280
	TCAGAACCAA	GCAGCCTCAA	AGGTTCCACA	TCTCTGCTTG	TTCAACCCAGT	TTCAAGGAGTG	2340
75	AGAAAGAGAG	AGAGGAGTGG	TTGTCAATTA	GATACCTGAA	GAACATTTTC	TCTCGTTACT	2400
	CAGAAGCAAA	TTTGTGTTAC	ACTGGAAGTG	ACCTATGAC	TGTTTTGTAA	GAATCACTGT	2460
	TACGTTCTTC	TTTTCGACTT	AAAGTTGCAT	TGCTACTGT	TATACTGGAA	AAAATAGAGT	2520
	TCAAGAAATA	TATGACTCAT	TTACACAAA	GGTTAATGAC	AACAATATAC	CTGAAAACAG	2580
	AAATGTGACG	GTTAATAATA	TTTTTTTAAAT	AGTGTGGGAG	GACAGAGTTA	GAGGAATCTT	2640
80	CCTTTTCTAT	TATGGAAGAT	TCTACTCTTG	GTAAGAGTAT	TTTAAGATGT	ACTATGCTAT	2700
	TTTACCTTTT	TGATATAAAA	TCAAGATATT	TCTTTGCTGA	AGTATTTAAA	TCTTATCCTT	2760
	GTATCTTTTT	ATACATAATT	GAAAATAAGC	TTATATGTAT	TGAACTTTT	TTGAAATCCT	2820
	ATTCAAGTAT	TTTTATCATG	CTATTGTGAT	ATTTTAGCAC	TTTGGTAGCT	TTTACACTGA	2880
	ATTTCTAAGA	AAATTGTAAA	ATAGTCTTCT	TTTATACTGT	AAAAAAGAT	ATACAAAAAA	2940
	GTCTTATAAT	AGGAATTTAA	CTTTAAAAAC	CCACTTATTG	ATACCTTACC	ATCTAAAAAT	3000

5
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 GGTGCTTACT CAAAGAGTGT CCACTATTGA TTGTATTATG CTGCTCACTG ATCCTTCTGC 3120
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 GGCCAAGTGC AATTGACTTC CCTTTTAA TGTTTCATGA CCACCCATTG ATTGTATTAT 3240
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Seq ID NO: C170 DNA Sequence
 Nucleic Acid Accession #: NM_000582
 Coding sequence: 88..990

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 CAGAAATCCC TAGCCCCACA GACCCTTCCA AGTAAGTCCA ACGAAAGCCA TGACCACATG 300
 GATGATATGG ATGATGAAGA TGATGATGAC CATGTGGACA GCCAGGACTC CATTGACTCG 360
 20 AACGACTCTG ATGATGTAGA TGACACTGAT GATTCTCACC AGTCTGATGA GTCTCACCAT 420
 TCTGATGAAT GTGCGAATC GGTCACTGAT TTTCCACGG ACCTGCCAGC AACCGAAGTT 480
 TTCACTCCAG TTGTCCCCAC AGTAGACACA TATGATGGCC GAGGTGATAG TGTGGTTTAT 540
 GGACTGAGGT CAAATCTAA GAAGTTTCGC AGACCTGACA TCCAGTACCC TGATGCTACA 600
 25 GACGAGGACA TCACCTCACA CATGGAAGC GAGGAGTTGA ATGGTGCCATA CAAGGCCATC 660
 CCGGTGGCCC AGGACCTGAA CGCGCTTCTT GATTGGGACA GCCGTGGGAA GGACAGTTAT 720
 GAAACGAGTC AGCTGGATGA CCAGAGTGCT GAAACCCACA GCCACAAGCA GTCCAGATTA 780
 TATAAGCGGA AAGCCAATGA TGAGAGCAAT GAGCATTCOG ATGTGATGTA TAGTCAGGAA 840
 CTTTCCAAAG TCAGCCGTGA ATTCACAGC CATGAATTC ACAGCCATGA AGATATGCTG 900
 GTGTAGACC CCAAAAGTAA GGAAGAAGAT AAACACCTGA AATTTCGTAT TTCTCATGAA 960
 30 TTAGATAGTG CATCTCTGA GGTCAATTA AAGGAGAAAA AATACAATTT CTCACCTTGC 1020
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 35 CTATGTTTAT TCTATAGAAG AAATGCAAAAC TATCACTGTA TTTTAATATT TGTATTCTC 1260
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 TATCTTTTGT TGGTGTGAAT AAATCTTTTA TCTTGAATGT AATAAGAAAT TGGTGGTGT 1440
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 40 GCCTAAAAAA AAAAAAATAA AAAA 1524

Seq ID NO: C171 DNA Sequence
 Nucleic Acid Accession #: NM_002821
 Coding sequence: 150..3362

45 1 11 21 31 41 51
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 CTGTCCAGGA CACGGAGCGG CGTTTCGCCC AGGGCAGCAG CTTGAGCTTT GCAGCTGTGG 420
 ACCGGCTGCA GGACTCTGGC ACCTTCCAGT GTGTGGCTCG GGATGATGTC ACTGGAGAAG 480
 55 AAGCCCGCAG TCCCAAGGCC TCCCTCAACA TCAAAATGAT TGAGGCAGGT CCGTGGTTC 540
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 ACATTGATGG GCACCCCTGG CCCACCTACC AATGGTTCOG AGATGGGACC CCGCTTCTG 660
 ATGGTCAGAG CAACCAACA GTACAGCAGA AGGAGCGGAA CTTGACGCTC CGGCCAGCTG 720
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 60 GCAGCCAGAA CTTCACTTG AGCATTGCTG ATGAAAGCTT TGCCAGGGTG GTGCTGGCAC 840
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 65 TCATCTTGGA AGCCACACTT CACCTAGCAG AGATTGAAGA CATGCCGCTA TTGAGCCAC 1140
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 70 TGCCCTCTGT GCTGAAGAAG CCCAAGACA GCCAGCTGGA GGAGGGCAAA CCGGGCTACT 1440
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5	AAGCCAAGCG	GCTGCAGAAG	CAGCCCCGAGG	GCGAGGAGCC	AGAGATGGAA	TGCCTCAACG	2400
	GAGGGCCTTT	GCAGAAACGG	CAGCCCTCAG	CAGAGATCCA	AGAAGAAGTG	GCCTTGACCA	2460
	GCTTGGGCTC	CGGCCCCGCG	GCCACCAACA	AACGCCACAG	CACAAGTGAT	AAGATGCACT	2520
	TCCACAGGTC	TAGCCTGCAG	CCCATCACCA	CGCTGGGGAA	GAGTGAGTTT	GGGGAGGTGT	2580
	TCCTGGCAAA	GCTGCAGGCG	TTGGAGGAGG	GAGTGGCAGA	GACCCTGGTA	CTTGTGAAGA	2640
	GCCTGCAGAC	GAAGGATGAG	CAGCAGCAGC	TGGACTTCCG	GAGGGAGTTG	GAGATGTTTG	2700
	GGAAGCTGAA	CCACGCCAAC	GTGGTGCGCG	TCTTGGGGCT	GTGCCGGGAG	GCTGAGCCCC	2760
	ACTACATGGT	CTGGGAATAT	GTGGATCTGG	GAGACCTCAA	GCAGTTCTTG	AGGATTTCCT	2820
10	AGAGCAAGGA	TGAAAAATTG	AAGTCACAGC	CCCTCAGCAC	CAAGCAGAAG	GTGGCCCTAT	2880
	GCACCCAGGT	AGCCCTGGGC	ATGGAGCACC	TGTCCAACAA	CCGCTTTGTG	CATAAGGACT	2940
	TGGCTGCGCG	TAACTGCTCT	GTCACTGCCC	AGAGACAAGT	GAAGGTGTCT	GCCCTGGGCC	3000
	TCAGCAAGGA	TGTGTACAAC	AGTGAGTACT	ACCACTTCCG	CCAGGCCTGG	GTGCCGCTGC	3060
	GCTGGATGTC	CCCGAGGCCC	ATCCTGGAGG	GTGACTTCTC	TACCAAGTCT	GATGTCTGGG	3120
15	CCTTGGGTGT	GCTGATGTGG	GAAGTGTITA	CACATGGAGA	GATGCCCATC	GTTGGGCAGG	3180
	CAGATGATGA	AGTACTGGCA	GATTTCGAGG	CTGGGAAGGC	TAGACTTCTC	CAGCCCGAGG	3240
	GCTGCCCTTC	CAAACTCTAT	CGGCTGATGC	AGCGCTGCTG	GGCCCTCAGC	CCCAAGGACC	3300
	GGCCCTCCTT	CAGTGAGATT	GCCACGCGCC	TGGGAGACAG	CACCGTGGAC	AGCAAGCCGT	3360
	GAGGAGGGAG	CCCGCTCAGG	ATGGCCTGGG	CAGGGGAGGA	CATCTCTAGA	GGGAAGCTCA	3420
20	CAGCATGATG	GGCAAGATCC	CTGTCTCTCT	GGGCCCTGAG	GTGCCCTAGT	GCAACAGGCA	3480
	TTGCTGAGGT	CTGAGCAGGG	CCTGGCCTTT	CCTCCTCTTC	CTCACCTCCA	TCCTTTGGGA	3540
	GGCTGACTTG	GACCCAAACT	GGGCGACTAG	GGCTTTGAGC	TGGCGAGTTT	CCCCTGCCAC	3600
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25	AGGCTTGGGA	TGAGCTGGGT	TTGTGGGGAG	TTCTTAATA	TTCTCAAGTT	CTGGGCACAC	3780
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	ACACAGCAAG	TGAGTCTCTC	CCACTCTGGG	CTTGTGCACA	CTGACCCAGA	CCCACTCTTT	3900
	CCCCACCTTT	CTCTCCTTTC	CTCATCTTAA	GTGCCCTGGC	GATGAAGGAG	TTTTCAAGAG	3960
	CTTTTGACAC	TATATAAACC	GGCCTTTTTC	TATGCAACAC	GGCGGCTTTT	TATATGTAAT	4020
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	GCCATCCTTA	CCCCACACTT	TTATTTGTGT	CGTTTTTGTG	TTGTTTTGTT	TTTTTGTTTT	4140
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Seq ID NO: C172 DNA Sequence

Nucleic Acid Accession #: NM_002309.2

Coding sequence: 65..673

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	TGGGGCGGGG	AGCCCCCTCC	CCATCACCCC	TGTCAACGCC	ACCTGTGCCA	TACGCCACCC	180
	ATGTCAACAAC	AACCTCATGA	ACCAGATCAG	GAGCCAACTG	GCACAGCTCA	ATGGCAGTGC	240
	CAATGCCCTC	TTTATTCTCT	ATTACACAGC	CCAGGGGGAG	CGGTTCCCCA	ACAACTGGA	300
45	CAAGCTATGT	GGCCCAACG	TGAOAGACTT	CCCGCCCTTC	CACGCCAACG	GCACGGAGAA	360
	GGCCAGCTG	GTGGAGCTGT	ACCGCATAGT	CGTGTACCTT	GGCACCTCCC	TGGGCAACAT	420
	CACCCGGGAC	CAGAAGATCC	TCAACCCAG	TGCCCTCAGC	CTCCACAGCA	AGCTCAACGC	480
	CACCGCGGAC	ATCCTGGGAG	GGCTCCTTAG	CAACGTGCTG	TGCCGCTCTG	GCAGCAAGTA	540
	CCAOGTGGGC	CATGTGGAGC	TGACCTACGG	CCCTGACACC	TGGGTAAAGG	ATGTCTTCCA	600
50	GAAGAAGAAG	CTGGGCTGTC	AACTCCTGGG	GAAGTATAAG	CAGATCATCG	CCGTGTGGGC	660
	CCAGGCTTTC	TAGCAGGAGG	TCTTGAAGTG	TGCTGTGAAC	CGAGGGATCT	CAGGAGTTGG	720
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	GGGGGCTGCT	GGCAGACCCC	GAGGGTGCCT	GGCCAGTCCA	CTCCACTCTG	GGCTGGGCTG	840
	TGATGAAGCT	CAGCAGAGTG	GAAACTTCCA	TAGGGAGGGA	GCTAGAAGAA	GGTGCCCTTT	900
55	CCTCTGGGAG	ATTGTGGACT	GGGGAGCGTG	GGCTGGACTT	CTGCCCTTAC	TTGTCCCTTT	960
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	CACAGGGTGA	CAGAGCAGGG	CCAGGGGAG	TGGACAGGCC	CCAGCAAAAT	TATCACCATC	1080
	TGTGCTTTTG	CTGCCCTTAA	GGTTGGGACT	TAGGTGGGCC	AGAGGGGCTA	GGATCCCAAA	1140
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60	AGGCTGTCTT	CTTTTGAGGA	TGATCAGAGA	ACTTGGGCAT	AGGAACAATC	TGGCAGAAGT	1260
	TTCCAGAAGG	AGGTCACTTG	GCATTACAGC	TCTTGGGGAG	GCAGAGAAGC	CACCTTCAGG	1320
	CCTGGGAAGG	AAGACACTGG	GAGGAGGAGA	GGCCTGGAAA	GCTTTGGTAG	GTTCTTCGTT	1380
	CTCTTCCCCG	TGATCTTCCC	TGCAGCCTGG	GATGGCCAGG	GTCTGATGGC	TGGACCTGCA	1440
	GCAGGGGTTT	GTGGAGGTGG	GTAGGGCAGG	GGCAGGTGTC	TAAGTCAAGT	GCAGAGGTTT	1500
65	TGAGGGACCC	AGGCTCTTCC	TCTGGGTAAA	GGTCTGTAG	AAGGGGCTGG	GGTAGCTCAG	1560
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70	TCCTGGTCCC	CTACTCAACA	AAATATGATG	ATGGCTCCCC	ACACAAGCGC	CAGGGCCAGG	1860
	GCTTAGCAGG	GCCTGGTCTG	GAAGTCGACA	ATGTTACAAG	TGGAATAAGC	TTACGGGTGA	1920
	AGCTCAGAGA	AGGGTCGGAT	CTGAGAGAAT	GGGGAGGCTT	GAGTGGGAGT	GGGGGGCTTT	1980
	GCTCCACCCC	CATCCCCCTAC	TGTGACTTGC	TTTAGCGTGT	CAGGGTCCAG	GCTGCAGGGG	2040
	CTGGGCGAAT	TTGTGGAGAG	GCCGGGTGCC	TTTCTGTCTT	GCTTCCAGGG	GGCTGGTTCA	2100
75	CACCTGTCTT	GGGCGCCCCA	GCATTGTGTT	GTGAGGGGCA	CTGTTCTCTG	CAGATATTGT	2160
	GCCCCCTGGA	GCAGTGGGCA	AGACAGTCTT	TGTGGCCAC	CCTGTCTCTG	TTTCTGTGTC	2220
	CCCATCTGTC	CTCTGAAATA	GCGCCCTGGA	ACAACCTGTC	CCCTGCACCC	AGCATGCTCC	2280
	GACACAGAGC	GGAGCTCTCT	CCTGTGGCCC	GGACACCCAT	AGACGGTGGC	GGGGGCTCTG	2340
	CTGGGCGAGA	CCCCAGGAAG	GTGGGGTAGA	CTGGGGGAT	CAGCTGCCCA	TGCTCCCCAA	2400
80	GAGGAGGAGA	GGGAGGCTGC	AGAAGCTTGG	GACTCAGACC	AGGAAGCTGT	GGGCCCTCCT	2460
	GCTCCACCCC	CATCCCACTC	CAACCCATGT	CTGGGCTCCC	AGGCAGGGAA	CCCGATCTCT	2520
	TCCTTTGTGC	TGGGGCCAGG	CGAGTGGAGA	AACGCCCTCC	AGTCTGAGAG	CAGGGGAGGG	2580
	AAGGAGGAGC	CAGAGTTGGG	GCAGCTGCTC	AGAGCAGTGT	TCTGGCTTCT	TCTCAAACCC	2640
	TGAGCGGGCT	CGCGGCTCTC	AAGTTCCTCC	GACAGATGA	TGGTACTAAT	TATGGTACTT	2700
	TTCACTCACT	TTGCACCTTT	CCCTGTGCTC	CTCTAAGCAC	TTTACCTGGA	TGGCGCGTGG	2760

5	GCAGTGTGCA GGCAGGTCCT GAGGCCTGGG GTTGGGGTGG AGGGTGGGGC CCGGAGTTGT 2820
	CCATCTGTCC ATCCCAACAG CAAGACGAGG ATGTGGCTGT TGAGATGTGG GCCACACTCA 2880
	CCCTGTGTCA GGATGCAGGG ACTGCCCTCT CTTCTCTGCT TCATCCGGCT TAGCTTGGGG 2940
	CTGGCTGCAT TCCCCAGGA TGGGCTTGA GAAAGACAAA CTGTCTGGA AACCAAGATT 3000
	CTGATTCCA CCGGGGGGG CCGGCTGACT CGCCATCAC CTCATCTCC TGTGGACTTG 3060
	GGAGCTCTGT GCCAGGCCCA CCTTGCGGCC CTGGCTCTGA GTCCCTCTCC CACCCAGCCT 3120
	GGACTTGGCC CCATGGGACC CATCCTCAGT GCTCCCTCCA GATCCCGTCC GGCAGCTTGG 3180
	CGTCCACCTT GCACAGCATC ACTGAATCAC AGAGCCTTGG CGTGAACACG CTCTGCCAGG 3240
10	CCGGGAGCTG GGTTCCTCTT CCCTTTTAT CTGCTGGTGT GGACCAACC TGGGCTGGC 3300
	CGGAGGAAGA GAGAGTTTAC CAAGAGAGAT GTCTCCGGGC CCTTATTAT TATTAAACA 3360
	TTTTTTTAAA AAGCACTGCT AGTTTACTTG TCTCTCTCC CCATCGTCCC CATCGTCTC 3420
	CTTGTCCCTG ACTTGGGGCA CTTCCACCTT GACCCAGCCA GTCCAGCTCT GCCTTGCCTG 3480
	CTCTCCAGAG TAGACATAGT GTGTGGGGTT GGAGCTCTGG CACCCGGGGA GGTAGCATT 3540
15	CCCTGCAGAT GGTACAGATG TTCTGCCTT AGAGTCACT CTAGTTCCTC ACCTCAATCC 3600
	CGGCATCCAG CCTTCAGTCC CGCCACAGTG CTAGCTCCGT GGGCCACCG TCGGCGCTTA 3660
	GAGGTTTCCC TCCTTCTCTT CCCTGAAAA GCACATGGCC TTGGGTGACA AATTCTCTT 3720
	TGATGAATGT ACCCTGTGGG GATGTTTCAT ACTGACAGAT TATTTTATT TATTCATGT 3780
	CATATTTAAA ATATTATTAT TTTATACCA ATGAATCACT TTTTTTTTAA AGAAAAAAA 3840
20	GAGAAATGAA TAAAGAATCT ACTCTTCG 3868

Seq ID NO: C173 DNA Sequence
Nucleic Acid Accession #: XM_097508
Coding sequence: 44..2788

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	GACACTTGTT	TGTCAAGTGT	CAATAATCAT	CTCTGCCCGG	GACCTCAGCA	TGAACAACT	120
30	CACAGAGCTT	CAGCCTGGCC	TCTTCCACCA	CTCTGGCCTC	TTGGAGGAGC	TGCCTCTCTC	180
	TGGGAACCAT	CTCTCACACA	TCCCAGGACA	AGCAATCTCT	GGTCTCTACA	GCCTGAAAA	240
	CCTGATGCTG	CAGAACAAATC	AGCTGGGAGG	AATCCCGCA	GAGGCGCTGT	GGGAGCTGCC	300
	GAGCCTGCAG	TCGCTGCGCC	TAGATGCCAA	CCTCATCTCC	CTGTGCCCGG	AGAGGAGCTT	360
	TGAGGGGCTG	TCCTCCCTCC	GCCACCTCTG	GCTGGACGAC	AATGCACTCA	CGGAGATCCC	420
35	TGTGAGGGCC	CTCAACAACC	TCCCTGCCCT	GCAGGCCATG	ACCCTGGCCC	TCAACCGCAT	480
	CAGCCACATC	CCGGACTACG	CGTTCAGAA	TCTCACCAGC	CTTGTGGTGC	TGCATTGCA	540
	TAAACAACGC	ATCCAGCATC	TGGGAGCCCA	CAGCTTCGAG	GGGCTGCACA	ATCTGGAGAC	600
	ACTAGACCTG	AATTATAACA	AGCTGCAGGA	GTTCCTCTGT	GCCATCCGGA	CCCTGGGCGA	660
	ACTGCAGGAA	CTGGGGTTCC	ATAACAACAA	CATCAAGGCC	ATCCAGAAA	AGGCCTTCAT	720
40	GGGGAACCTT	CTGCTACAGA	CGATACACTT	TTATGATAAC	CCAATCCAGT	TTGTGGGAAG	780
	ATCGGCATTCT	CAGTACCTGC	CTAAACTCCA	CACACTATCT	CTGAATGGTG	CCATGGACAT	840
	CCAGGAGTTT	CCAGATCTCA	AAGGCACCAC	CAGCCTGGAG	ATCCTGACCC	TGACCCGCGC	900
	AGGCATCCGG	CTGCTCCCAT	CGGGGATGTG	CCACAGCTGT	CCCAGGCTCC	GAGTCTCTGA	960
	ACTGTCTCAC	AATCAAAATTG	AGGAGCTGCC	CAGCCTGCAC	AGGTGTGAGA	AATTGGAGGA	1020
45	AATCGGCTCT	CAACACAACC	GCATCTGGGA	AATTGGAGCT	GACACCTTCA	GCCAGCTGAG	1080
	CTCCCTGCAA	GCCCTGGATC	TTAGCTGGAA	CGCATCCGG	TCCATCCACC	CCGAGGCTT	1140
	CTCCACCTCT	CATCCTCTGG	TCAAGCTGGA	CCTGACAGAC	AACCACTGTA	CCACACTGCC	1200
	CCTGGCTGGA	CCTGGGGGCT	TGATGCATCT	GAGACTCAA	GGGAACCTTG	CTCTCTCCCA	1260
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50	GTGCTGTCCC	TATGGGATGT	GTGCCAGCTT	CTTCAAGGCC	TCTGGGCACT	GGGAGGCTGA	1380
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	AGCAGAGAAC	CACATATGACC	AGGAACCTGGA	TGAGCTCCAG	CTGGAGATGG	AGGACTCAAA	1500
	GCCACACCCC	AGTGTCCAGT	GTAGCCCTAC	TCCAGGCCCC	TTCAAGCCCT	GTGAGTACCT	1560
	CTTTGAAAG	TGGGCAATCC	GCCTGGCCGT	GTGGGCCATC	GTGTGTCTCT	CCGTTGCTG	1620
55	CAATGGACTG	GTGCTGTGTA	CCGTTTCGCG	TGGCGGGCCT	GTCCCTCTGC	CCCCGCTCAA	1680
	GTCTGTGGTA	GGTGGGATG	CAGGCGCCAA	CACCTTGACT	GGCATTTCCT	GTGGCCTTCT	1740
	AGCCTCAGTC	GATGCCCTGA	CTTTTGGTCA	GTCTCTGAG	TACGGAGCCC	GCTGGGAGAC	1800
	GGGGCTAGGC	TGGCGGGCCA	CTGGCTTCTC	GGCAGTACTT	GGTGTGGAGG	CATCGGTGCT	1860
	GCTGCTCACT	CTGGCCGAGC	TGCAGTGCAG	CGTCTCCGTC	TCCTGTGTCC	GGGCTATGG	1920
60	GAAGTCCCCC	TCCTGGGCA	GCGTTCGAGC	AGGGGTCTTA	GGTGCTCTGC	CACTGCGAG	1980
	GCTGGCCGCC	GCGCTGCCCG	TGGCCTCAGT	GGGAGAATAC	GGGGCTCTCC	CACTCTGCC	2040
	GCCCTACGCG	CCACCTGAGG	GTCAGCCAGC	AGCCCTGGGC	TTCAACCGTGG	CCCTGGTGT	2100
	GATGAACCTC	TTCTGTTTCC	TGGTCTGTGC	CGGTGCTAC	ATCAAACTGT	ACTGTGACCT	2160
	GCGCGGGGGC	GACTTTGAGG	CGGTGTGGGA	CTGGCCATG	GTGAGGCACG	TGGCTGGCT	2220
65	CATCTTGCCA	GACGGGCTCC	TCTACTGTCC	CGTGGCCTTC	CTAGACCTTG	CTCCATGCT	2280
	GGGCTCTTCT	CTGTCAAGC	CCGAGGCCGT	CAAGTCTGTC	CTGCTGGTGG	TGCTGCCCT	2340
	GCCTGCTGCG	CTCAACCCAC	TGCTGTACCT	GCTCTCAAC	CCCCACTTCC	GGGATGACCT	2400
	TGGGGGCTT	CGGCCCCGCG	CAGGGGACTC	AGGGCCCTTA	GCCTATGCTG	CGGCGGGGA	2460
	GCTGGAGAAG	AGCTCTGTG	ATTCTACCA	GBCCTGGTA	GCCTTCTCTG	ATGTGGATCT	2520
70	CATTCTGAAA	GCTTCTGAAG	CTGGGCGGCC	CCTTGGGCTG	GAGACCTATG	GCTTCCCTC	2580
	AGTGACCTCT	ATCTCTGTG	AGCAGCCAGG	GGCCCCAGG	CTGGAGGGCA	GCCATTGTGT	2640
	AGAGCCAGAG	GGAACCACT	TTGGGAACCC	CCAACCTTCC	ATGGATGGAG	AACTGCTGCT	2700
	GAGGGCAGAG	GGATCTACGC	CAGCAGGTGG	AGGCTTGTCA	GGGGGTGGCG	GCTTTCAGCC	2760
	CTCTGGCTTG	GCCTTTGCTT	CACAAGTGA	AATATCCCTC	CCCACTTCTC	TCTTCCCTC	2820
75	TCTTCCCTTT	CCTCTCTCCC	CCTCGTGTAA	TGATGGCTGC	TTCTAAACA	AATAACAACA	2880
	AAACTCAGCA	GTGTGATCTA	TAGCAGGATG	GCCCCAGTCC	TGGCTCCACT	GATCACTCT	2940
	CTCCTGTGAC	CATCAACCAAC	GGGTGCCTCT	TGGCTGGCT	TCTCCTTGGC	CTTCTCAGC	3000
	CTTCTCTTGA	TACTGGGCTT	CTTCCCTTGC	ATGTCGTAAG	CTGTGGACCA	GAGACTTGA	3060
	CTTTTGTCTG	CTTAAAGGAA	ATGAGGGGAA	TAAAGACAGT	GAAGGGGTGG	AGGGTTGATC	3120
80	AGGGACAGT	GGACAGGGAG	ACCTCACAGA	GAAAGGCTG	GAGGTGATT	TCCCGTGTGA	3180
	CTCATGGATA	GGATACAATA	TGTTTCCAT	TGACCATTA	TCTTGACATA	TGCCATGCAT	3240
	AAAGACTTCC	TATTAAAAAT	AGCTTTGGAA	GAG			3273

Seq ID NO: C174 DNA Sequence
Nucleic Acid Accession #: NM_130849

Coding sequence: 101..2044

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   GGAGCTGGGG CTGCTTCTGG CTGTGCTGGT GGTGACGGCG ACGGCGTCCC GCCTGCTGG 180
   TCTGCTAGAC CTGCTCACCT CTGGCCAGGG CGCTCTGGAT CAAGAGGCTC TGGGCGGCCT 240
   GTTAAATAAG CTGGCGGACC GTGTGCACTG CACCAACGGG CCGTGTGGAA AGTGCTGTC 300
10 TGTGGAGGAC GCCCTGGGCC TGGGCGAGCC TGAGGGTCA GGGCTGCCCC CGGGCCCGGT 360
   CCTGGAGGCC AGGTACGTCG CCCGCCCTAG TGCCGCGGCC GTCTGTATCC TCAGCAACCC 420
   CGAGGGCACC TGTGAGGACA CTGGGCTGGG CCTCTGGGCC TCTCATGCAG ACCACCTCCT 480
   GGCCCTGCTC GAGAGCCCCA AGGCCCTGAC CCGGGGCTG AGCTGGCTGC TGCAGAGGAT 540
   GCAGGCGCCG GCTGCGGGCC AGACCCCAA GACGGCTGCG GTAGATATCC CTCAGCTGCT 600
15 GGAGGAGGCG GTGGGGGCGG GGGCTCGGG CAGTGTCTGG GGCCTCTTGG CTGCCCTGCT 660
   GGACCATGTC AGGAGCGGGT CTGTCTTCCA CGCCTTGGCG AGCCCTCAGT ACTTCGTGGA 720
   CTTTGTGTTT CAGCAGCACA GCAGCGAGGT CCCTATGACG CTGGCCGAGC TGTGAGCCTT 780
   GATGACGCGC CTGGGGGTGG GCAGGGAGGC CCACAGTGAC CACAGTCATC GGCACAGGGG 840
   AGCCAGCAGC CGGACCCCTG TGCCCTCAT CAGCTCCAGC AACAGCTCCA GTGTGTGGGA 900
20 CAGGTTATGC CTGAGTGCCA GGGACGTGAT GGCTGCATAT GGACTGTCTG AACAGGCTGG 960
   GGTGACCCCG AGGAGCTGGG CCCAACTGAG CCTGCGCTG CTCCAACAGC AGCTGAGTGG 1020
   AGCCTGACCC TCCAGTCCA GGGCCCCCGT CCAGGACGAG CTCAGCCAGT CAGAGAGGTA 1080
   TCTGTACGCG CTGCTGGCCA CGCTGCTCAT CTGCTCTGCG GCGGTCTTTG GCCTCTGTCT 1140
   GCTGACCTGC ACTGGCTGCA GGGGGGTGCG CCATACATC CTGCAGACCT TCCTGAGCCT 1200
25 GGCAGTGGGT GCACTCACTG GGGACGCTGT CCTGCATCTG ACGCCCAAGG TGCTGGGGCT 1260
   GCATACACAC AGGAGAGAGG GCCTCAGCCC ACAGCCACCC TGGGCGCTCC TGGCTATGCT 1320
   GGGCGGGCTC TAGCCCTTCT TCCTGTTTGA GAACCTCTTC AATCTCTGCG TGCCACAGGA 1380
   CCGGAGGAC CTGGAGGACG GGCCTGCGG CCACAGCAGC CATAGCCACG GGGGCCACAG 1440
   CCACGCTGTG TCCCTGCAGC TGGCACCCAG CGAGCTCCGG CAGCCCAAGC CCCCCACGA 1500
30 GGGCTCCCGC GCAGACCTGG TGGCGGAGGA GAGCCCGGAG CTGCTGAACC CTGAGCCAG 1560
   GAGACTGAGC CCAGAGTTGA GGCTACTGCC CTATATGATC ACTCTGGGCG ACGCGTGGCA 1620
   CAACTTCGCC GAGGGGCTGG CCGTGGGCGC CGCCTTGGCG TCCTCTGGA AGACCGGGCT 1680
   GGGCACTCGC CTGGCGTGT TCTGCCACGA GTTGCCACAC GAGCTGGGGG ACTTCGCGCG 1740
   CTGTCTGCAC GGGGGCTGT CCGTGCGCCA AGCACTGCTG CTGAACCTGG CCTCCGCGCT 1800
35 CACGGCCTTC GCTGCTCTCT ACGTGGCACT CGCGTTGGA GTGAGCGAGG AGAGCGAGGC 1860
   CTGGATCCTG GCAGTGGCCA CGGCTGTGTT CCTCTACGTA GCACTCTGCG ACATGCTCCC 1920
   GGGATGTTG AAGATACGGG ACCCGCGGCC CTGGCTCCTC TTCCTGTGCG ACAAGTGGG 1980
   CCTGTGGGC GGTGGACCG TCCTGTGCTG GCTGTCCCTG TACGAGGATG ACATCACCTT 2040
   CTGATACCTT GCCCTAGTCC CCCACCTTTG ACTTAAGATC CCACACCTCA CAACCTACA 2100
40 GCCCAGAAC CAGAAGCCCC TATAGAGGCC CCAGTCCCAA CTCAGTAAA GACACTCTTG 2160
   TCCTTGGA AAATAAAAAA AAAAAAAAAA AA 2192
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Seq ID NO: C175 DNA Sequence

Nucleic Acid Accession #: NM_018971

Coding sequence: 1..1128

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   AAGCTGGCCA CGCTCAGCCT GCTGCTGTGC GTGAGCCTAG CGGGCAAGT GCTGTTCCGG 120
   CTGCTGATCG TGGCGGAGCG CAGCCTGCAC CGCGCCCGT ACTACTGTCT GCTCGACCTG 180
   TGCTTGGCGG ACGGGCTGCG CGCGCTGCCC TGCCCTCCGG CCGTCATGCT GGGCGGCGCG 240
   CGTGGCGCGG CGCGGCGGG GCGCGCGCGG GCGCGCTGG GCTGCAAGCT GCTCGCCTTC 300
   CTGGCGCGCG TCTTCTGCTT CCACGCGGCC TTCTGCTGCG TGGCGTGGG GTTCACCCGC 360
55 TACCTGGCCA TCGCGCACC CCGCTTCTAT GCAGAGGCCC TGGCGGCGTG GCCGTGCGCC 420
   GCCATGCTGG TGTGCGCGCG CTGGGCGCTG GCGCTGGCGG CGGCTTCCC GCCAGTGTG 480
   GACCGCGGGT GCGACGACGA GGAAGCGCGG TGGCGCCTGG AGCAGCGGCC GAGCGCGGCC 540
   CCGCGCGCGG TGGGCTTCTT GCTGCTGCTG GCGGTGGTGG TGGGCGCAC GCACCTGCTC 600
   TACCTCGGCC TGCTCTTCTT CATCCAGCAC CGCGCAAGA TGCGGCGCGG GCGCTGTG 660
60 CCGCGCGTCA GCCACGACTG GACCTTCCAC GGGCGGGGCG CCACCGGCCA GGGCGCGGCC 720
   AACTGGACGG CGGGCTTGG CGCGGGGCC ACGCGCGCGG CGCTGTGGG CATCGGGCCC 780
   GCAGGGCCGG GCGCGGGCG GCGCGGCCCT CTGCTCTGG AAGAATTCAA GACGAGAGAAG 840
   AGGCTGTGCA AGATGTTCTA CGCGTCAAG CTGCTCTTCC TGCTCTCTG GGGGCCCTAC 900
   GTGTTGGCCA GCTACTGCG GTTCTGGTGG CGGCGCGCG CCGTCCCCCA GGCTACCTG 960
65 ACGGCTCTCG TGTGGCTGAC CTTCGCGCAG GCGCGCATCA ACCCGTCTGT GTGCTTCTTC 1020
   TTCAACAGGG AGCTGAGGGA CTGCTTACGG CCGCAGTTCC CTGCTGCCA GAGCCCCCGG 1080
   ACCACCCAGG GCACCATTC CTGCGACCTG AAAGGCATTG GTTTATGA 1128
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Seq ID NO: C176 DNA Sequence

Nucleic Acid Accession #: NM_005631

Coding sequence: 290..2653

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   CGTTTCGGGG CCTCCGACG CCAACATGGG CCCCGGTTTC CAAAGTTTGC GAAGTTGGGC 120
   GCGAGGGGGC CGGGCGCGCG GGAAGCTTCC GGGGGGCCCG GGCCCGGATT CTCTGGGCGC 180
   ACAGGTGCGC CTAGCTCGCT CCGCGGCGCG CGAGGTCTGT GGTGTGGCG GGGGCTTCCG 240
   AGGAGCAGGC GGGGCGCGCG GGGCTTTTGC TGAGTTGGCG GGGTTGCCA TGGCGCGTGC 300
80 CCGCCACAGC CGGGGGCCGG AGCTCCCGCT CCTGGGGCTG CTGCTGCTGC TGTGCTGGG 360
   GGACCCGGGG CGGGGGGGCG CCTCGAGCGG GAACGCGACC GGGCTTGGGC CTCGAGCGCG 420
   GGGCGGGAGC GCGAGGAGGA GCGCGCGGCT GACTGGCCCT CCGCGCGCG TGAACCACTG 480
   GCGCGGGCTG GCGGCTGCG AGCGGCTGCG CTACAACGTC TGCTTGGGCT CGGTGCTGCC 540
   CTACGGGGCC ACCTCCACAC TGCTGGCGCG AGACTCGGAC TCCAGGAGG AAGCGCACGG 600
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5	CAAGCTCGTG	CTCTGGTCGG	GCCTCCGGAA	TGCCCCCGGC	TGCTGGGCAG	TGATCCAGCC	660
	CCTGCTGTGT	GCCGTATACA	TGCCCAAGTG	TGAGAATGAC	OGGGTGGAGC	TGCCCAGCCG	720
	TACCTCTGTC	CAGGCCACCC	GAGGCCCTTG	TGCCATCGTG	GAGAGGGAGC	GGGGCTGGCC	780
	TGACTTCTCT	CGCTGCACCT	CTBACCGCTT	CCCTGAAGGC	TGCACGAATG	AGGTGCAGAA	840
	CATCAAGTTC	AACAGTTCAG	GCCAGTGCAG	AGTGCCCTTG	GTTCGGACAG	ACAAACCCCAA	900
	GAGCTGGTAC	GAGGACGTGG	AGGGCTGCGG	CATCCAGTGC	CAGAACCCGC	TCTTACAGAA	960
	GGCTGAGCAC	CAGGACATGC	ACAGCTACAT	CGGGCCCTTC	GGGGCCGTCA	CGGGCCCTCTG	1020
	CACGCTCTTC	ACCCTGGCCA	CATTCTGGGC	TGACTGGCGG	AACCTGAATC	GCTACCTCTGC	1080
10	TGTTATTCTC	TTCTACGTCA	ATGCGTGTCT	CTTTGTGGGC	AGCATTGGCT	GGCTGGCCCA	1140
	GTTCATGGAT	GGTGCCCGCC	GAGAGATCGT	CTGCCGTGCA	GATGGCACCAC	TGAGGCTTGG	1200
	GGAGCCCAAC	TCCAATGAGA	CTCTGTCTTG	OGTCATCATC	TTTGTCTATG	TGTACTACGC	1260
	CCTGATGGCT	GGTGTGGTGT	GGTTTGGTGT	CCTCACCTAT	GCCTGGCACA	CTTCTTCAA	1320
	AGCCCTGGGC	ACCACCTACC	AGCCTCTCTC	GGGCAAGACC	TCCTACTTCC	ACCTGCTCAC	1380
15	CTGGTCACTC	CCCTTTGTCC	TCACGTGTGC	AATCCTTGCT	GTGGCGCAGG	TGGATGGGGA	1440
	CTCTGTGATG	GGCATTGTGT	TTGTGGGCTA	CAAGAACTAC	CGATACCGTG	CGGGCTTCGT	1500
	GCTGGCCCA	ATCGGCGCTG	TGCTCATCGT	GGGAGGCTAC	TTCTCATCC	GAGGAGTCAT	1560
	GACTCTGTTC	TCCATCAAGA	GCAACCAACC	CGGGCTGCTG	AGTGAGAAGG	CTGCCAGCAA	1620
	GATCAACGAG	ACCATGCTGC	GCCTGGGCAT	TTTTGGCTTC	CTGGCCTTTG	GCTTTGTGCT	1680
20	CATTACCTTC	AGCTGCCACT	TCTACGACTT	CTTCAACCAG	GCTGAGTGGG	AGCGCAGCTT	1740
	CCGGGACTAT	GTGCTATGTC	AGGCCAATGT	GACCATCGGG	CTGCCACCAC	AGCAGCCCAT	1800
	CCCTGACTGT	TCCATCAAGA	ATCGCCCGAG	CCTTCTGGTG	GAGAAGATCA	ACCTGTTTGC	1860
	CATGTTTGGG	ACTGGCATCG	CCATGAGCAC	CTGGGTCTGG	ACCAAGGCCA	CGCTGTCTAT	1920
	CTGGAGGCGT	ACCTGTGCGA	GGTTGACTGG	GCAGAGTGAC	GATGAGCCAA	AGCGGATCAA	1980
25	GAAGAGCAAG	AATGATTGCCA	AGGCCCTTCTC	TAAGCGGCAC	GAGCTCCTGC	AGAACCCAGG	2040
	CCAGGAGCTG	TCCTTCAGCA	TGCACACTGT	GTCCCAACGC	GGGCGCGTGG	CGGGCTTGGC	2100
	CTTTGACTCT	AATGAGCCCT	CAGCTGATGT	CTCCTCTGCC	TGGGCCACGC	ATGTCAACAA	2160
	GATGTTGGCT	CGGAGAGGAG	CCATCTGTCC	CCAGGATATT	TCTGTCAACC	CTGTGGCAAC	2220
	TCCAGTGCCC	CCAGAGGAAC	AAGCCAACTT	GTGGCTGTGT	GAGGCAGAGA	TCTCCCCAGA	2280
30	GCTGCAGAA	CGCCTGGGCC	GGAAAGAAGAA	GAGGAGGAAG	AGGAAGAAGG	AGGTGTGCCC	2340
	GCTGGCGCCG	CCCCCTGAGC	TTCAACCCCTC	TGCCCTGTCC	CCCAGTACCA	TTCTCTGACT	2400
	GCCTCAGCTG	ATCGGCGAGA	AATGCTGTGT	GGCTGCAGGT	GCCTGGGGAG	CTGGGGACTC	2460
	TTGCCGACAG	GGAGCGTGGG	CCCTGGTCTC	CAACCCATTG	TGCCCAGAGC	CCAGTCCCCC	2520
	TCAGGATCCA	TTTCTGCCCA	GTGCACCGGC	CCCCGTGGCA	TGGGCTCATG	GCCGCCGACA	2580
35	GGGCTGGGG	CCTATTCACT	CCCCCACCAC	CCTGATGGAC	ACAGAACTCA	TGGATGCAGA	2640
	CTGGGACTCT	TGAGCCTGCA	GAGCAGGACC	TGGGACAGGA	AAGAGAGGAA	CCAATACCTT	2700
	CAAGGCTCTT	CTTCTCAACC	GAGCATGCTT	CCCTAGGATC	CCGTCTTCCA	GAGAACCTGT	2760
	GGGCTGACTG	CCCTCCGAAG	AGAGTTCTGG	ATGCTGTGGT	CAAGAGCAGC	GGACTGTGGG	2820
	AAAGAGCCTA	ACATCTCCAT	GGGGAGGCGT	CACCCAGGG	ACAGGGCCCT	GGAGCTCAGG	2880
40	GTCTCTGTGT	TCGCCCTGCC	AGCTGCAGCC	TGGTTGGCAG	CATCTGCTCC	ATCGGGCAG	2940
	GGGGTATGCA	GAGCTTGTGG	TGGGGCAGGA	ACGGTGGAGG	CAGAGGTGAC	AGTTCACCAA	3000
	GTGGGCTTTG	GTGGCCAGGG	AGGCAGCCTA	GCCTATGTCT	GGCAGATGAG	GGCTGGCTGC	3060
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45	GGCTGGAAGG	ACCTGCTCCC	ACAGGGGCCA	TGTCTCTCTT	TAATAGGTGG	CACTACCCCA	3240
	AACCCATCTT	TTGTTCTCCT	ATATCCTCCT	TCTCCTGTTC	CATTTCAGTT	CAGTTTCAGC	3300
	GGTGCCCAAC	CTTTTGGCTT	TCCTTTTGT	TGATGAGGAC	CCAGAGCTGC	TGCACACAT	3360
	CACCTCTAAC	CCCCCTCCCT	CGCTGCTGGG	CCCATCTCC	ACAGGAGAGA	CTGGTTGGGC	3420
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50	ATCATCTCTT	CTCTCACACC	ATTAGTGGG	GGATGGGTCC	TCTAGACTTG	AGGGGCTACC	3540
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	GAATCAGACA	GCAGGAAGCC	ATAGATGCTG	GCTGGGTTC	AGGTTATGGG	GAGAAAGAA	3720
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Seq ID NO: C177 DNA Sequence
Nucleic Acid Accession #: AK094595
Coding sequence: 1..2853

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65	TCAGCGCCAG	CAGAGCGGCT	GCCCTACTTC	CTGCAGGAGC	CACAGGACGC	CTACATTGTG	180
	AAGAACAAGC	CTGTGGAGCT	CGCTTCCCGC	GCCTTCCCGC	CCACACAGAT	CTACTTCAAG	240
	TGCAACCGCG	AGTGGGTGAG	CCAGAACGAC	CACGTCAAC	AGGAAGGCGT	GGATGAGGCC	300
	ACCTTGGGGG	CGCGGGCGGG	CGTGGGGTGG	CGCGAGGTGC	AGATCGAGGT	GTGCGGGCAG	360
	CAGGTGGAGG	AGCTCTTTGG	GCTGGAGGAT	TACTGGTGCC	AGTGGGTGGC	CTGGAGCTCC	420
70	GCGGGCACCA	CCAAGAGTGC	COGAGCCTAC	GTCCGCTATG	CCTACCTGCG	CAAGAACTTC	480
	GATCAGGAGC	CTCTGGGCAA	GGAGGTGCC	CTGGACCATG	AGGTCTCTCT	GCAGTGGCGC	540
	CGCGCGGAGG	GGGTGGCTGT	GGCGGAGGTG	GAATGGCTCA	AGAATGAGGA	TGTCTATGAC	600
	CCCAACCCAG	ACACCAACTT	CCTGCTCACC	ATCGACCACA	ACCTCATCAT	CGCCAGGCCC	660
	CGCCTGTGCG	ACACTGCCAA	CTATACCTGC	GTGGCCAAAG	ACATCGTGGC	CAAAACCCCG	720
75	AGCACCAGTG	CCACCGTCAT	CGTCTACGTC	AATGGCGGCT	GGTCCAGCTG	GGCAGAGTGG	780
	TACCCCTGCT	CCAACCGCTG	TGGCCGAGGC	TGGCAGAGGC	GCACCCGAGC	CTGCACCAAC	840
	CCCGCTGCGG	TTCAACGAGG	GGCCTTCTGC	GAGGGCCAGG	CATTCCAGAA	GACCCGCTGC	900
	ACCACCATCT	GCCCACTGGA	TGGGGCGTGG	ACGAGGTGGA	GCAAGTGTGC	AGCCTGCAGC	960
	ACTGAGTGTG	CCCATGCGCG	TAGCCGCGAG	TGCATGCGCG	CCCCACCCCA	GAACGGAGGC	1020
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Seq ID NO: C178 DNA Sequence
 Nucleic Acid Accession #: NM_004625
 Coding sequence: 310..1359

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Seq ID NO: C179 DNA Sequence OBR3
 Nucleic Acid Accession #: NM_003786
 Coding sequence: 71..4654

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Nucleic Acid Accession #: NM_004626
Coding sequence: 124..1188

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GCGGAGCTC CGTGTCTTAT CCAAGCAGA TGCCATTGTC CCAGGTCTGA GCGAGGGGGA 2100
GGGCGCGCGC AGGAGGGGTG GCGAGGAGCC CAAGTGAGCG GAAGGGGACAC 2160
TTGATGGGCT GAGGTCTCCA CCGCTTCACT GTGTGATTG CTATTAGCAT GATAATGAAC 2220
TCTTATGCTT ATCACTAGC TGGGACTTAA ATGACTCACT TAGAACAAAG TACTGGCAT 2280
TGAAGCTTCC CAGACCCAGC CCCTTTCTCT CCATTGATGT GCGGGGAGCT CCTCCGCGCA 2340
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CGCGTTAATT TCTGTGGCT GAGGAGGGTG GACTCTGCGG CGTTTCCAGA ACCCGAGATT 2400
TGGAGCCCTC CTCGGCTGCA CTGGCTGGG TTTGCAGTCA GATACACAGA TTTCACCTGG 2460
GAGAACCTCT TTTTCTCCCT CGACTCTTCC TAGCTAAACT CCCACCCCTG ACTTACCCCTG 2520
GAGGAGGGGT GACCGCCACC TGATGGGATT GCACGGTTTG GGTATTCTTA ATGACCAGGC 2580
AAATGCCTTA AGTAAACAAA CAAGAAATGT CTTAATTATA CACCCACAGT AAATACGGGT 2640
TTCTTACATT AGAGGATGTA TTTATATAAT TATTGTGTAA ATTGTAAAAA AAAAAAGTGT 2700
AAAAATATGA TATATCCAAA GATATAGTGT GTACATTTTT TTGTAAAAAG TTTAGAGGCT 2760
TACCCCTGTA AGAACAGATA TAAGTATTCT ATTTTGTCAA TAAAATGACT TTTGATAAAT 2820
GATTTAACCA TTGCCCTCTC CCCCGCCTCT TCTGAGCTGT CACCTTTAAA GTGCTTGCTA 2880
AGGACGATAG GGGAAATATG ACATTTTCTG GCTTGTCAAT CTGTACACTG ACCTTAGGCA 2940
TGGAGAAAT TACTGTGTAA ACTCTAGTTC TTAAGTTGTT AGCCAAGTAA ATATCATTTGT 3000
TGAAC TGAAATTTGA GTTTTTGCAC CTTCGCCAAA GACGGTGT TTTCATGGGAG 3060
CTCTTTTCTG ATCCATGGAT AACAACTCTC ACTTTAAGTG ATGTAAATGG AACTTCTGCA 3120
AGGCAGTAAT TCCCTTAGG CCTTGTATT TATCCTGCAT GGTATCACTA AAGGTTTCAA 3180
AACCTGAAA AAAAA 3195

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Seq ID NO: C182 DNA Sequence
Nucleic Acid Accession #: XM_050625
Coding sequence: 222..1109

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1 11 21 31 41 51
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CCGGTGTCCC GCTTCTCCGC GCCCCAGCCG CCGGCTGCCA GCTTTTCGGG GCGCCGAGTC 120
GCACCCAGCG AAGAGAGCGG GCCCGGGACA AGCTCGAACT CGCGCCGCTT CGCCCTTCCC 180
CGGCTCCGCT CCCTCTGCCC CCTCGGGGTC GCGCGCCAC GATGCTGCAG GGCCCTGGCT 240
CGCTGCTGCT GCTCTTCTC GCTCTGCACT GCTGCTGGG CTGCGCGCGC GGGCTCTTCC 300
TCTTTGACCA GCCGACTTTC TCCTACAAGC GCAGCAATTG CAAGCCCATC CCGTCCCAAC 360
TGCACTGTGT CCACGGCATC GAATACCAAG ACATGCGGCT GCCCAACCTG CTGGGCCACG 420
AGACCATGAA GAGAGTGTGT GAGCAGGCGG GCGCTTGAT CCGCTGTGCT ATGAAGCAGT 480
GCCACCGGGA CACCAAGAAG TTCCTGTGCT CGCTCTTGGC CCCCGTCTGC CTCGATGACC 540
TAGACGAGAC CATCCAGCCA TGCCACTGCG TCTGCGTGCA GGTGAAGGAC CGCTGCGCCC 600
CGGTCATGTC CGCCTTCCGC TTCCCTGGC CCGACATGCT TGAGTGCGAG CGTTTCCCCC 660
AGGACAACGA CCTTTGCATC CCCCTCGTCA GCAGCGACCA CCTCTCGCCA GCCACCGAGG 720
AAGCTTCAAA GGTATGTGAA GCCTGCAAAA ATAAAAATGA TGATGACAA GACATAATGG 780
AAACGCTTTG TAAAAATGAT TTTGCACTGA AAATAAAAGT GAAGGAGATA ACCTACATCA 840
ACCGAGATAC CAAATCATC CTGGAGACCA AGAGCAAGAC CATTTACAAG CTGAACGGTG 900
TGTCGGAAGG GGACCTGAAG AAATCGGTGC TGTGGCTCAA AGACAGCTTG CAGTGCACTT 960
GTGAGGAGAT GAACGACATC AACCGCCCTC ATCTGGTCAT GGGACAGAAA CAGGGTGGGG 1020
AGCTGGTGAT CACTCGGTG AAGCGGTGGC AGAAGGGGCA GAGAGAGTTC AAGCGCATCT 1080
CCCGCAGCAT CCGCAAGCTG CAGTGCTAGT CCGCGCATCC TGATGGCTCC GACAGGCTTG 1140
TCCAGAGCA CGGCTGACCA TTTCTGTCTC GGGATCTCAG CTCCTGTCC CCAAGCACAC 1200
TCTTAGCTGC TCCTAGTCTCA GCCTGGGCGC CTTCCTCTG CTTTGTGCACT GTTTGCACTC 1260
CCAGCATTTT CTGAGTTATA AGGCCACAGG AGTGGATAGC TGTTTTACC TAAAGGAAAA 1320
GCCACCCGGA ATCTTGTAGA AATAATCAAA CTAATAAAAT CATGAATATT TTTATGAAGT 1380
TT 1382

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Seq ID NO: C183 DNA Sequence
Nucleic Acid Accession #: NM_001306.1
Coding sequence: 199..861

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GCGGCGCGCG TCGGTGAGTC AGTCCGTCCT TCGTCCGTC CGTGGGGGCG CGCAGCTTCC 120
CGCCAGGCCC AGCGGCCCGG GCCCTCTGTC TCCCGGCACC CGGAGCCACC CGGTGGAGCG 180
GGCCTTGGCG CGGCAGCCAT GTCCATGGGC CTGGAGATCA CGGGCACCGC GCTGCGCGTG 240
CTGGGCTGGC TGGGCACCAT CGTGTGCTGC GGGTGGCCCA TGTGGCGGCT GTGCGCTTTC 300
ATCGGAGACA ACATCATCAC GTGCGAGAAC ATCTGGGAGG GCCTGTGGAT GAACTGCGTG 360
GTGCAAGACA CCGGCCAGAT GCAGTGAAG GTGTACGACT CGCTGTGCGC ACTGCCACAG 420
GACCTTCAGG CGGCCCGCGC CTTCATGCTG GTGGCCATCC TGCTGGCCGC CTTCCGGCTG 480
CTAGTGGGCG TGGTGGGCGC CCACTGCACC AACTGGGTGC AGGACGACAC GGCCAAGGCC 540
AAGATCACCA TGTGGCAGG CGTGTGCTTC CTTCGCGCG CCCTGTCTAC CCTGTGCGG 600
GTGTCTCGGT CGGCCAACAC CATTTATCCG GACTTCTACA ACCCGTGGT GCGCGAGGCG 660
CAGAAAGCGG AGATGGGCGC GGGCCTGTAC GTGGGCTGGG CGGCCGCGGC GCTGCAGCTG 720
CTGGGGGGCG CGCTGCTCTG CTGCTGCTGT CCCCACGCG AGAAGAAGTA CACGGCCACC 780
AAGGTCTGCT ACTCGCGGCC GCGCTCCACC GGGCCGGGAG CCAGCCTGGG CACAGGCTAC 840
GACCGCAAGG ACTAGTCTA AGGGACAGAC GCAGGGAGAC CCAACCAACA CCAACCAACA 900
CAACACCAAC ACCACCAACG CGAGCTGGAG CGGCAACCA GGCATCCAGC GTGCAGCCTT 960
GCCTCGGAGG CCAGCCCAAC CCCAGAAGCC AGGAAGCCCT CGGCTGGAGC TGGGGCAGCT 1020
TCCCGAGCAG CCAAGGCTTT GCGGGCGCGG CAGTCCGACT CGGGGCGGCG GAGCCAACTT 1080
GCATGGACTG TGAACCTTCA CCTTCTGGA GCACGGGGCC TGGGTGACCG CCAATACTTG 1140
ACCAACCCGT CGAGCCCATC CGGGCGGCTG CCCCATGTCT GCGCTGGGCA GGGACCGGCA 1200
GCCCTGGAAG GGGCACTTGA TATTTTTC AAAGGCCTC TCGTTTTCAG 1250

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Seq ID NO: C184 DNA Sequence
Nucleic Acid Accession #: NM_012449.1
Coding sequence: 66..1085

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1 11 21 31 41 51
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AATTAATGGA AAGCAGAAAA GACATCACAA ACCAAGAAGA ACTTTGGAAA ATGAAGCCTA 120
GGAGAAATTT AGAAGAAGAC GATTATTTCG ATAAGGACAC GGGAGAGACC AGCATGCTAA 180

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5 AAAGACCTGT GCTTTTGCAT TTGCACCAAA CAGCCCATGC TGATGAATTT GACTGCCCTT 240
 CAGAACTTCA GCACACACAG GAACCTCTTC CACAGTGGCA CTGGCCAATT AAAATAGCTG 300
 CTATTATAGC ATCTCTGACT TTCTTTTACA CTCTTCTGAG GGAAGTAATT CACCCTTTAG 360
 CAACCTCCCA TCAACAATAT TTTTATAAAA TTCCAATCCT GGTCAATCAAC AAAGTCTTGC 420
 CAATGGTTTC CATCACTCTC TTGGCAATTGG TTTACCTGCC AGGTGTGATA GCAGCAATTG 480
 TCCAACCTCA TAATGGAACC AAGTATAAGA AGTTTCCACA TTGGTTGGAT AAGTGGATGT 540
 TAACAAGAAA GCAGTTTGGG CTCTCTCAGT TCTTTTTTGC TGACTCTGAT GCAATTTATA 600
 GTCTGTCTTA CCCAATGAGG CGATCCTACA GATACAAGTT GCTAAACTGG GCATATCAAC 660
 10 AGGTCCAACA AAATAAGAA GATGCCTGGA TTGAGCATGA TGTTTGGAGA ATGGAGATTT 720
 ATGTGTCTCT GGAATTTGTG GGAATGGCAA TACTGGCTCT GTTGGCTGTG ACATCTATTCT 780
 CATCTGTGAG TGACTCTTTG ACATGGAGAG AATTTCACTA TATTTCAGAGC AAGCTAGGAA 840
 TTGTTTCCCT TCTACTGGGC ACAAATACAG CATTGATTTT TGCTGGAAAT AAGTGGATAG 900
 ATATAAACA ATTTGTATGG TATACACCTC CAACTTTAT GATAGCTGTT TTCTTCCAA 960
 15 TTGTTTCCCT GATATTTAAA AGCATACTAT TCCTGCCATG CTGAGGAAG AAGATACTGA 1020
 AGATTAGACA TGTTTGGGAA GACGTCAACA AAATTAACAA AACTGAGATA TGTTCCCACT 1080
 TGTAGAAATTA CTGTTTACAC ACATTTTGT TCAATATTGA TATATTTAT CACCAACATT 1140
 TCAAGTTTGT ATTTGTTAAT AAAATGATTA TTCAAGGAAA AAAAAAAAAA AAAAA 1195

20 Seq ID NO: C185 DNA Sequence
 Nucleic Acid Accession #: NM_001775.1
 Coding sequence: 70..972

25 1 11 21 31 41 51
 CTAAGCTCTT CTGCTGCCT AGCCTCCTGC CGGCTCTATC TTGCCCCAGC CAACCCCGCC 60
 TGGAGCCCTA TGGCCAACTG CGAGTTTCAG CCGGTGTCCG GGGACAAACC CTGCTGCCGG 120
 CTCTCTAGGA GAGCCCAACT CTGTCTTGGC GTCAATATCC TGGTCTGAT CCTGTGTG 180
 GTGCTCGCGG TGGTCTGCC GAGGTGGCGC CAGAGCTGGA GCGGTCCGGG CACCACCAAG 240
 30 CGCTTTCCCG AGACCGTCTT GCGCGATGTC GTCAAGTACA CTGAAATTCA TCCTGAGATG 300
 AGACATGTAG ACTGCCAAGG TGTATGGGAT GCTTTCAAGG GTGCATTTAT TTCAAAACAT 360
 CCTTGCAACA TACTTGAAGA AGACTATCAG CCACTAATGA AGTTGGGAAC TCAGACCGTA 420
 CCTTGCAACA AGATTCTTCT TTGGAGCAGA ATAAAGATC TGCCCATCAT GTTCACACAG 480
 GTCCAGCGGG ACATGTTTCC CCTGGAGGAC ACGCTGCTAG GCTACCTTGC TGATGACCTC 540
 35 ACATGGTGTG GTGAATTCAA CACTTCCAAA ATAACTATC AATCTTGCCC AGACTGGAGA 600
 AAGGACTGCA GCAACAACCC TGTTCAGTA TTCTGAAAA CGGTTTCCCG CAGGTTTGCA 660
 GAAGCTGCTT GTGATGTGGT CCATGTGATG CTCAATGGAT CCGCAGTAA AATCTTTGAC 720
 AAAAAACAGA CTTTGGGAG TGTGGAAGTC CATTAATTGC AACACAGAGA GGTTCAGACA 780
 CTAGAGGCTT GGGTGATACA TGGTGAAGA GAAGATTCCA GAGACTTATG CCAGGATCCC 840
 40 ACCATAAAGG AGCTGGAATC GATTATAAGC AAAAGGAATA TTCAATTTTC CTGCAAGAAT 900
 ATCTACAGAC CTGACAAGTT TCTTCAGTGT GTGAAAAATC CTGAGGATTC ATCTTGACA 960
 TCTGAGATCT GAGCCAGTCG CTGTGTTGT TTTAGCTCCT TGACTCTTG TGGTTTATGT 1020
 CATCATACAT GACTCAGCAT ACCTGCTGGT GCAGAGCTGA AGATTTTGA GGGTCTTCCA 1080
 CAATAAGGTC AATGCCAGAG ACGGAAGCCT TTTTCCCAA AGTCTTAAA TAACCTATAT 1140
 45 CATCAGCATA CCTTATTGT GATCTATCAA TAGTCAAGAA AAATTATTGT ATAAGATTAG 1200
 AATGAAATTT GTATGTTAAG TTACTTCTT TAG 1233

50 Seq ID NO: C186 DNA Sequence
 Nucleic Acid Accession #: XM_120513.2
 Coding sequence: 1..2208

55 1 11 21 31 41 51
 ATGGTGTGAT GCAGGTTCTC GGGGCCCTTA CGGGAACAA ATGAAAAAGT GAAAAAGTTC 60
 TACGCTTTCG GAGCTTTTAT GTTCCGATG AGCTCAGAGG CCGGATGCT CGGGGAAAGC 120
 AGGACCCCAA AGCCCCGTAA ACACCGCGCG ACCACCCGGG CCAAGATCTT CAAGAGGTTC 180
 TTTTCAGAGG GATTCGAGAG CAATTCCCGA TTGGTAGAAG AACTTGTCTG AATACACAG 240
 TACTCTGAGC ACCCGCGCCC AACGACTAGC CCGTCTCTG TGCAAAACCG AGAGTTTGGG 300
 60 GTCAATGAGG GGGCGCCAG AGCTGTGTTT GGAAGCCGGA CCGCGCCCGC AGCCGACGAA 360
 GCCTCGAGTC CATCTGCGG CATTGGGAG GCAGCCTGTC AATCAGGAGC TCGGGCGGCA 420
 GCGCCCGCGG CGGGGGCTCG GCGATGCCAG CCTCAGCGAC AGGCGGCGGC GCGGCGGGCC 480
 ACGGCACAGA CACACACCTT CCCACACGCG CGCACCAGGG CAGACCCGGC GGGCAGGCGG 540
 CGGAGGCACC CTGCGAGCCC GCGCGCCGCG GGGGAGGGGA CGTCTCCGA GGGACCGGCC 600
 CCGAGGCGCC GATGAGGAGA AGAGATGCAG CCGGCAGAGG AGGGGCCCAG CGTCCCAAAA 660
 65 ATCTACAAGC AGCGCAGCCC CTACAGCGTC CTCAGACGTC TCCCAAGCAA GAGACCGCG 720
 CTGGCCAAGC GCTACGAGCG ACCCACCCTG GTGGAGCTGC CGCAGCGCCA CTGAGGACT 780
 CCGGCGCAGC CGCGCGCGCG GTCCCGCGCC GCCTCTCTGT GGTCTCTGTT CGCGCTGTGC 840
 GTCAAGCTCG GGGCTCTCTC GCGTCCGCCA CGCGCTGAGT TTGCGGCGCG GGGAAACATC 900
 CGCGCCCTCT TTCTTCCCC GGGAGTCGCA GGCACCTCTG TCCCAACGCG CAGTCTGTG 960
 70 TCCCGGCCAT CCGCTCTGTC CCGTCCGTCG CAGCTGCGCG CGCGCGGGG AGGGACCTCA 1020
 CATACACATA TGTGGAGGTC CAGTCCACA CTTCAGGAT CTGACACCAT GGTCTCTGTC 1080
 TTTGGATTGA TGGCTCAGAG AAGATGGCAG CATAGATCTT TAAAGCAGTT TGAGTGGGGA 1140
 ATTCTTGGAT CTGGGGGTAC TTGGCCATGT GGCACGAGAT GGTCTGAGAA GAGGGGTGAG 1200
 GTGGCGGCTC TCTCTGCAAG GTCTGAGGGT AATACTGCTC CTAAGAAGAG TCGAATGATC 1260
 75 TTGGATGCCT TTGCCCAGCA GTGCACTGCA GTTCTTAGCC TCTTAAATTT TGGAGGAAAA 1320
 CTCCTGAGCT CCAACCATTC TCAGTCCATG ATTTCTTTCG TAAAGCAGGA AGGCTCAAGT 1380
 TACAAGGAAA GACAGGAGCA CTGTCACTT GGGAAAGGGG TCCACAGTCA GACCTCAGAC 1440
 AATGTAGACA TAGAGATGCA GTATATGCAA AGGAAACAAC AAACCTCTGC CTTTGTGAGG 1500
 GTTTTCACTG ACTCTCTACA AAATTACCTG CTCTGGGAA GCTTTCACAA TCCAAACCCC 1560
 80 TCGTCAGCCA GTGAATATGG CCACTGCGCC GACGTGGATC CTCTGTCAAC CTCTCTGTG 1620
 CATACATTAG AAAATATTTC ACTTGATTCC ACAGCTTCCC TGTGTAAATC TAGGCATCTA 1680
 TCCAGAGAGC CCGCAGTCAA GAGTGATTTT CCAATCTCTT TGCAGCAGGC CTTGGCTGGG 1740
 GGTGCTTCAA GACCATTTTC AGGGGCACAG CAAAGCATCG CTTACAGGAT GAACTCTGAA 1800
 CTTGAGATG GCTTCCGAG CCGCTCCCT TTGAGTTGTG AGGCTTGGAA AATGGAATTG 1860
 ACCTCCTTGG GAAGCAAGCA GCTGTTGAAC AACTATCTGT TCTACATAAC GAGCAACAG 1920

5 TGGGATGAGG CTGTAAATTC TTCAAAGAAA GATGGGAGAC GGCTCCTTCG ATACCTCATC 1980
 AGATTGTGTT TCACAACCGA TGAGCTTAAG TACTCATGCG GCCTTGGGAA AAGGAAAAGG 2040
 TCAGTGCAGT CAGGAGAGAC AGGTCCCGAA AGACGCCCTC TGGATCCAGT TAAAGTAACA 2100
 TGCTCCGAG GTACTGCATC CTTCCGCTCA GTGTACCAT CTGTGATCTC ATTTACCCGC 2160
 ATTGGCTGTG GCTCTCCCGG TACAAGTGT TACGCTTCTG TATTTTGA 2208

Seq ID NO: C187 DNA Sequence

Nucleic Acid Accession #: AB037745.1

Coding sequence: 26..1744

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GTACAAGGGC	ATGACAGGCT	GGGAGGTGGC	TGGTGATCAC	ATTTACACAG	CTGCTGGAGC	120
CTCAGACAAT	GACTTCATGA	TTCTCACTCT	GGTTGTGCCA	GGATTTAGAC	CTCCGCAGTC	180
GGTGATGGCA	GACACAGAGA	ATAAAGAGGT	GGCCAGAATC	ACATTGTGCT	TTGAGACCCT	240
CTGTTCTGTG	AACTGTGAGC	TCTACTTCAT	GGTGGGTGTG	AATTCTAGGA	CCAACACTCC	300
TGTGGAGAGC	TGGAAGGTTT	CCAAGGCCAA	ACAGTCTTAT	ACCTACATCA	TTGAGGAGAA	360
CACTACCAGG	AGCTTCACCT	GGGCCTTCCA	GAGGACCACT	TTTCATGAGG	CAAGCAGGAA	420
GTACACCAAT	GACGTTGCCA	AGATCTACTC	CATCAATGTC	ACCAATGTTA	TGAATGGCGT	480
GGCCTCTTAC	TGCCGTCCTC	GTGCCCTAGA	AGCCTCTGAT	GTGGGCTCCT	CCTGCACCTC	540
TTGTCTGTGT	GGTTACTATA	TTGACCGAGA	TTGAGGAACC	TGCCACTCCT	GCCCCCTAA	600
CACAAATCTG	AAAGCCCAAC	AGCCTTATGG	TGTCCAGGCC	TGTGTGCCCT	GTGGTCCAGT	660
GACCAAGAAC	AACAAGATCC	ACTCTCTGTG	CTACAATGAT	TGCACCTTCT	CACGCAACAC	720
TCCAACCAAG	ACTTTCAACT	ACAACCTCTC	CGCTTTGGCA	AACACCGTCA	CTCTTGCTGG	780
AGGGCCAAGC	TTCACTTCCA	AAGGGTTGAA	ATACTTCCAT	CACTTTACCC	TCAGTCTCTG	840
TGGAACCCAG	GGTAGGAAAA	TGCTGTGTGT	CACCGACAAT	GTCACTGACC	TCCGGATTCC	900
TGAGGCTGAG	TGAGGTTTGT	CCAAATCTAT	CACAGCCTAC	GTCTGCCAGG	CAGTCATCAT	960
CCCCCCAGAG	GTGACAGGCT	ACAAGGCCGG	GGTTTCTTCA	CAGCCTGTCA	GCCTTGCTGA	1020
TGCACTTATT	GGGGTGACAA	CAGATATGAC	TCTGGATGGA	ATCACCCTCC	CAGCTGAAGT	1080
TTTCCACCTG	TGCTCTGTGG	GAATACCGGA	CGTGATCTTC	TTTTATAGGT	CCAATGATGT	1140
GACCCAGTCC	TGCACTTCTG	GGAGATCAAC	CACCATCCGC	GTCAAGTGCA	GTCCACAGAA	1200
AACGTGTCCG	GAAGGTTTGC	TGCTGCCAGG	AACGTGCTCA	GATGGGACCT	GTGATGGCTG	1260
CAACTTCCAC	TTCTGTGTGG	AGAGCGCGGC	TGCTTGCCCG	CTCTGCTCAG	TGGCTGACTA	1320
CCATGCTATC	GTGACAGGCT	GTGTGGCTGG	GATCCAGAAG	ACTACTTACG	TGTGGCGAGA	1380
ACCCAAGCTA	TGCTCTGGTG	GCAATTCTCT	GCCTGAGCAG	AGAGTCACCA	TCGCAAAAC	1440
CATAGATTTC	TGGCTGAAAG	TGGGCATCTC	TGCAGGCACC	TGTACTGCCA	TCCTGTCTAC	1500
CGTCTTGACC	GCTACTTTT	GGAAAAAGAA	TCAAAAACCTA	GAGTACAAGT	ACTCCAAGCT	1560
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GATCAAAATC	TTTACTCTCA	AGCAGCCAGC	TCTGTTCACC	ATCTCTCTTT	CAGAGGACTC	1740
CTGATGGATT	TGACTCAGTG	CGCTGGAAGA	CATCCTCAGG	AGGCCACAGC	ATGGACCTGT	1800
GAGAGGCACT	AATCCGCTCA	CCCTGCTCCT	CACCTTGCAAT	AGCACTTTG	CAAGCCTGCG	1860
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ATCAGATGAT	TGAATTTTCA	ATCTTTTCTT	ATAGAGTACC	CAAACTCTCC	TTTCTGCTTG	1980
CCTCAAACTT	GCCAAATATA	CCCACTTTT	GTTTGTAAAT	TATGCCCTTG	CTGTATCTTT	2040
GTTTCCCAAA	ATGGCCCATC	CGCCAGAGCC	ATAGCTTGCT	CTGCTCATAA	TTCTTATAGC	2100
TTTGAATGAA	AAATATTCTT	ATCTTCTTAA	GTATAGAAAC	TATTTCTCTT	GTCTCTTAAC	2160
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GGAGCAAGGC	TGGGTGAAGA	AAAGCCTTGA	AAAGCATAAA	AAGAGGCCGG	CGCGGTGGC	2400
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CTCAAGTGTG	CTGTCCGCTC	CGGCCTCCCA	AATGCTGGG	ATTACAGGCA	TAAGCCACTG	3000
CACCTCAGCT	TTTATTGTGT	TTTAAACCA	CGTAGCTCAT	TGCCTTCTCT	TAAGTAAATG	3060
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GACATAGCAA	ACCTGTCTAG	TGAGGAAAAA	TCCCATCTCT	TGAGTGCCCC	CGTCTAGAAA	3300
GTTTGGGCCA	TATTATGGAA	CAGGGGTCTC	TTATTTGAAA	AGAGCACAAG	GAGGCCAAGA	3360
TTTTAATGGG	GCACTTTAGG	GGATACAGCC	CACATAGGCA	TGGGCTGTAG	GTGGCGGTGA	3420
TGCTGTCTTC	TAAAGCTTAA	GCATCTGCTC	AGGCACAGAA	TAAACGTCTA	GGCTGGCCAA	3480
AAAAGGAAC	GAATCCCAAG	CCCATACGCC	AGCACCAGAA	TCAAAACAGT	CTTCAAGGAA	3540
GGAAGGCTAG	GAGAGTTTAA	CAAGATTTTC	ACTGGGCCCA	GCATGGTGGC	TCACACCTGT	3600
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CTCACTATTA	AGCCCCATTC	TTTCTCTTTT	TTTCATTCTC	AATTGCTTTG	TGTGATAAAA	3780
AACTAAAGAG	ACTTCTGAGT	CAATTCTGCG	CAACATCCCT	TCTGAAAGGT	GAGTAGAGTG	3840
GGTGTCTTCT	ATGCCCAATT	TCCCAATTTT	TACACAAACT	ATTATCAATG	AACCTTTAAG	3900
TACCTAGAA	GGGTAAACCC	AGAGCAAGAC	TTTAAATTAC	CTTCTCTTTT	CTTCTACTGG	3960
CAGTTCCTGCC	TCCATCACTA	TCAGGCTAGG	GTGACCTTCC	CTTGGTCAAG	CCCCAATTGC	4020
CCATGATTTG	TGCTGTGGCC	CTTTCTCCAG	TGACCAATTG	GTGACCAGAT	GGTAGATATA	4080
GAAAGGGGAT	GGCATTTGCA	AGTGACTAGT	CTGCCACAAA	ATGCTCATCT	GATTAGCCAC	4140
TGCTGCCCTG	GCAATGGCTT	TGTAAGAGTC	AATGAGAAGT	AGAGCCAGGC	TGTGGTCCCT	4200
GGCATCAAC	AGTGTGGTGG	ACGGCAGGGA	GTCCCTTTGG	TTTAAATAAT	CCAGTTTCTC	4260
TTTGGGTATC	CAAATCTCTC	CCTCTTTTGG	TAGGAGTCAG	GCTCTCAGAA	CCTGTGTCCA	4320

5 TGTGGAAGT TCCCCAGTG TGGATGCAGA TACGCAGCTC CTGAGCTCCA GCCTAAAGTC 4380
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 CAAAGGCCAC AGACAGCCCT TAGACTATTC CGGAAACAGT AGGAAAAATT ACATATGTCT 4500
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 ACTACCCCTT ACCGTGCTGA CTCTGCAGG TCTGCCCTGT GACCTGTCTG GAACTCCTGA 4620
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 ACAGCTTTAT TGAGATATAA TTCACATATT ATACAATTCA CCTTTAAAC ATACGATTCA 4740
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Seq ID NO: C188 DNA Sequence
 Nucleic Acid Accession #: NM_014324.1
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30	AAGAGTCATC	GACCTCAGTT	AGTGGTTGGA	TGTAGTCACA	TTAGTTTGGC	TCTCCCCATC	6180
	TTTGTCCTCC	TGGCAAGGAG	AATATGCGGG	ACATGATGCT	AAGAGCCCTG	GGTAAATGTG	6240
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Seq ID NO: C192 DNA Sequence

Nucleic Acid Accession #: NM_006549.2

Coding sequence: 824..2590

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	AGGCCAAGGC	GGGTGGATCA	CGAGGTCAGG	AATTCAGAT	TAGCCTGGAC	AACATGGTGA	240
	AACCCCTACT	CTACGAAAAA	TACAAAAAT	AGCCAAATAT	GGTGGCCGGC	GCCTGTAAATC	300
	CCAGCTACTC	GGGAGACTGA	GGCAGAGAAC	TGCTTGAACC	TGGGAGGCAG	AGGTTGCAGT	360
50	GATCCGAGAT	CGGTCTACTG	CACCTCCAGC	TGGGCGCAG	AGCGAGACTC	CGTTTCAGAA	420
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55	CGTAGGACGG	TTACGGGAGC	CCTCCAGGTC	TTGGTTTCTC	CTCTTCCCGG	CACAGTCTGT	720
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	CAAGATCGCT	GACTTTGGTG	TGAGCAATGA	ATTCAAGGGC	AGTGACGCGC	TCCTCTCCAA	1860
75	CACCGTGGGC	ACCGCGCCCT	TCAATGGCACC	CGAGTCGCTC	TCTGAGACCC	GCAAGATCTT	1920
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80	CAGGAGGCAT	GGGCGGAGC	CGTTGCCGTC	GGAGGATGAG	AACTGCACGC	TGGTCAAGAT	2220
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Seq ID NO: C193 DNA Sequence

Nucleic Acid Accession #: NM_018646

Coding sequence: 217..2394

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Seq ID NO: C194 DNA Sequence
 Nucleic Acid Accession #: NM_021910.1
 Coding sequence: 260..601

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 Nucleic Acid Accession #: NM_005971.2
 Coding sequence: 176..439

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1304

Seq ID NO: C196 DNA Sequence

Nucleic Acid Accession #: NM_004961.2

Coding sequence: 55..1575

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30	AATAGCCGTG	CCCATGCCCG	TACCCGTGCA	CGTTCGCGAG	CCTGTGCCCG	CCAACATCAG	1260
	GAAGCTTTTG	TGTGCCAGAT	TGTCAACACT	GAGGGAAGTG	ATGGAGAGGA	GCGCCGCTCT	1320
	TGCTCAGCCC	AGCAGCCCCC	TAGCCCAAGT	AGCCCTGAGG	GTCCCGCAGC	CTCTGCTTCC	1380
	AAGCTGGCCT	GCTGTGAGTG	GTGCAAGCGT	TTTAAGAAGT	ACTTCTGCAT	GGTCCCGCAT	1440
	TGTGAGGGCA	TAACTGGGCA	GCAGGCGCGC	CTCTGCATCC	ATGTCTACCG	CCTGGATAAC	1500
35	TACTCGAGAG	TTGTTTTCCC	AGTGACTTTC	TTCTTCTTCA	ATGTGCTCTA	CTGGCTTGTT	1560
	TGCCCTTAAT	TGTAGGTACC	AGCTGGTACC	CTGTGGGGCA	ACCTCTCCAG	TTCCCCAGGA	1620
	GGTCCAAAGC	CCTTGCCCAAG	GGAGTTGGGG	GAAAGCAGCA	GCAGCAGCAG	GAGCGACTAG	1680
	AGTTTTTCTT	GCCCCATTCC	CCAAACAGAA	GCTTGCAGAG	GGTTTGCTTT	TGCTGCCCTT	1740
	CTCCCTTACC	TGGCCCATTC	ACTGAGTCTT	CTCAGCAGAC	CATTTCAAAT	TATTAATAAA	1800
40	TGGGCCACCT	CCCTCTTCTT	CAAGGAGCAT	CGGTGATGCT	CAGTGTTCAA	AACCAAGGCC	1860
	ACTTAGTGAT	CAGCTCCCTA	AAACCATGCC	TAAGTACAGG	CGGATTAGCT	ATCTTCCAAC	1920
	AATGCTGACC	ACCAGACAAAT	TACTGCAATT	TTCCAGAAGC	CCACTATTGC	CTTTGTAGTG	1980
	CTTTGGGCCC	AGTTCTGGCC	TCAGCCTCAA	AGTGACCGGA	CTAGTTGCTT	GGCTATACCT	2040
	GGCAGGCTAT	TAAAGTGCTG	GGCAGCAGTA	TAACAGGAGG	AAGAGATCCC	TCTCCTTTGG	2100
45	TCAGATTATT	ATGTTCTCAG	TTCTCTCTCC	CTGTACCCCC	TTTCTCTGCA	GATAGATAGA	2160
	CACCTGGCATT	ATCCCTTTAG	GAAGAGGGGG	GGGCAGCAG	AGAGCCTATT	TGGGACAGCA	2220
	TTCTCTCTCC	TCTGCTGCTG	TGACATCTCC	CTCTCCTTGC	TGGCTCCATC	TTTGTGCTGC	2280
	ACTACCAATT	CAATGCCCTT	CATCCAATGG	GTATCTATT	TTGTGTGTGA	TTATAGTAAC	2340
	TACTCCCTGC	TTTATATGCC	ACCCTCTTCC	TTCTCTTGA	CCCTGTGAC	TCCTTCTGTA	2400
50	ACTTTCCGAC	TGACTTCCCC	TAGCCCTGAC	CCAGGCACTA	GGCCTTGGTG	ACTTCTGGGG	2460
	GCCAAGAAAC	TAAGGAAACT	CGGCTTTGCA	ACAGGCATTA	CTCGCCATTG	ATTGGTGCCC	2520
	ACCCAGGAGC	CACCTGCGGA	GTTCATATCAC	TTGCTTGACC	CCTGGACCCA	TAAACCAAGT	2580
	CACCTGTTATA	CCCGGGGCGC	TCTAACCATC	ACAATCAATC	AATCAAATTC	CCTTAAATTT	2640
	GTATGGCCTAT	GGAACTTTGG	CAAGCACTT	TTGACAAGTT	GTGCTGATT	GGAGCTTCAT	2700
55	GATAGCCTTG	TGACATCTTT	AGGCGAGGAT	TCTTATCCCC	ATTTTGACGA	TGAAACCCCT	2760
	GAGTCACAGA	TTTCTGTGGG	ACTGTGGATC	TCACTGGAAG	CTATCCAAGA	GGCCACTGTC	2820
	ACCTTCTAGA	CCCATGTGTA	GGGCTAGACA	GCTCAGTTCA	CCATGATTCT	CTTCTGTGAC	2880
	CTCTGCTGGC	ACACCAAGTG	CAAGGCCGAG	AATGGCGACC	TCTCTTAGC	TCAATTTCTG	2940
	GGCCTGAGGT	GCTCAGACTG	CCCCCAAGAT	CAAACTCTTC	CTGGCTGTAG	TAAACCAAGT	3000
60	GAATGAATTT	GGACATGCC	CAATGCTTCT	ATATGCTAAG	TGAAATCTGT	GTCTGTAATT	3060
	TGTTGGGGGG	TGGATAGGGT	GGGCTCTCCA	TCTACTTTTT	GTCAACATCA	TCTGAAATGG	3120
	GGAAATATGT	AAATAAATAT	ATCAGCAAAG	CAAAAAGAAA	AAAAAAA		3168

Seq ID NO: C197 DNA Sequence

Nucleic Acid Accession #: NM_021984.1

Coding sequence: 572..1753

65

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70	GCCAGAGCGT	GAGCGCGAC	CTCCGCGCAG	GTGGTCGCGC	CGGTCTCCGC	GGAAATGTTG	60
	TCCAAAGTTC	TTCCAGTCTT	CCTAGGCATC	TTATTGATCC	TCCAGTCGAG	AACATGTATA	120
	CAGAGAAAGT	CTCAATCAT	AAGTGTACAG	CTGATGAGTT	GTCAAAAAAT	GACCACAGCG	180
	GTGTAAAGAA	AGCCAAATCA	AGGACCCGAA	TGTGAGCAGG	ACCTCAGAAG	CCCCCTTTGT	240
	CACCTGCTCC	CAGCAAGGCC	AGCACTATCC	GGACTTCTAA	CACCATCGGG	TCGAGGGGACC	300
75	TCAGACTGAA	TCAAAGAATG	AAGCCTCTTC	CGGTGATGTT	GTCTATGGCC	CCGACCCCA	360
	GCCTCTGGAA	AATCAGCTCC	TCTCTGAGGA	AACAAGTCA	ACTGAGACTG	AGACTGGGAG	420
	CAGAGTTGGC	AAACTGCCAG	AAGCCTCTCG	CATCTGAAC	ACTATCTGA	GTAATTATGA	480
	CCACAAACTG	CGCCCTGGCA	TTGGAGAGAA	GGCCACTGTG	GTCACTGTTG	AGATCTCCGT	540
	CAACAGCCTT	GGTCTCTCT	CTATCTAGA	CATGGAATAC	ACCATTGACA	TCATCTTCTC	600
80	CCAGACCTGG	TACGACGAAC	GCCTCTGTTA	CAACGACACC	TTTGAGTCTC	TTGTTCTGAA	660
	TGGCAATGTG	GTGAGCCAGC	TATGGATCCC	GGACACCTTT	TTTAGGAATT	CTAAGAGGAC	720
	CCACGAGCAT	GAGATCACCA	TGCCCAACCA	GATGGTCGCG	ATCTACAAGG	ATGGCAAGGT	780
	GTTGTACACA	ATTAGGATGA	CCATTGATGC	CGGATGCTCA	CTCCACATGC	TCAGATTTC	840
	AATGGATTCT	CACCTTGGC	CTCTATCTTT	CTTCACTTTT	TCCTATCTCT	AGAATGAGAT	900
	GATCTACAAG	TGGGAAAATT	TCAAGCTTGA	AATCAATGAG	AAGAACTCCT	GGAAGCTCTT	960

5	CCAGTTGGAT	TTTACAGGAG	TGAGCAACAA	AACTGAAATA	ATCACACCC	CAGTTGGTGA	1020
	CTTCATGGTC	ATGACGATTT	TCTTCAATGT	GAGCAGGCGG	TTTGGCTATG	TTGCCCTTCA	1080
	AAACTATGTC	CCTTCTTCGG	TGACCACGAT	GCTCTCCTGG	GTTTCTCTTT	GGATCAAGAC	1140
	AGAGTCTGCT	CCAGCCCGGA	CCTCTCTAGG	GATCACTCT	GTTCTGACCA	TGACCACGTT	1200
	GGSCACCTTT	TCTCGTAAGA	ATTTCCCGCG	TGTCCTCTAT	ATCACAGCCT	TGGATTCTTA	1260
	TATCGCCATC	TGCTTCGTCT	TCTGCTTCTG	CGCTCTGTGG	GAGTTTGTCTG	TGCTCAACTT	1320
	CCTGATCTAC	AACCAGACAA	AAGCCCATGC	TTCTCCTAAA	CTCCGCCATC	CTCGTATCAA	1380
	TAGCCGTGCC	CATGCCCGTA	CCCGTGACCG	TTCCCGAGCC	TGTGCCCGCC	AACATCAGGA	1440
10	AGCTTTTGTG	TGCCAGATTG	TCACCACTGA	GGGAAGTGAT	GGAGAGGAGC	GCCCGTCTTG	1500
	CTCAGCCCGAG	CAGCCCCCTA	GCCCAGGTAG	CCCTGAGGGT	CCCCGCAGCC	TCTGCTCCAA	1560
	GCTGGCCCTGC	TGTGAGTGGT	GCAAGCGTTT	TAAGAAGTAC	TTTGTCTTTG	TCCCGATTG	1620
	TGAGGGCAGT	ACCTGGCAGC	AGGCCCGCCT	CTGCATCCAT	GCTACCGCC	TGGATAACTA	1680
	CTCGAGAGTT	GTTTTCCTAG	TGACTTCTT	CTTCTTCAAT	GTGCTCTACT	GGCTTGTGTTG	1740
15	CCTTAACCTG	TAGGTACCAG	CTGGTACCCT	GTGGGGCAAC	CTCTCCAGTT	CCCCAGGAGG	1800
	TCCAGCCCC	TTGCCAAGGG	AGTTGGGGGA	AAGCAGCAGC	AGCAGCAGGA	GCGACTAGAG	1860
	TTTTCTCTGC	CCCATTTCCC	AAACAGAAGC	TTGCAGAGGG	TTTGTCTTTG	CTGCCCTCT	1920
	CCCTTACCTG	GCCCATTCAC	TGAGTTTCT	CAGCAGACCA	TTTCAAATA	TTAATAAATG	1980
	GGCCACCTCC	CTCTTCTTCA	AGGAGCATCC	GTGATGCTCA	GTGTTCAAAA	CCACAGCCAC	2040
20	TTAGTGATCA	GCTCCCTAAA	ACCATGCCCTA	AGTACAGGCG	GATTAGCTAT	CTTCCAACAA	2100
	TGCTGACAC	CAGACAATTA	CTGCATTTT	CCAGAAGCCC	ACTATTGCCT	TTGCAGTGTCT	2160
	TTCCGCCCAT	TTCTGGCCTC	AGCCTCAAAG	TGCACCGAT	AGTTGCTTGC	CTATACCTGG	2220
	CACCTCATT	AGATGCTGGG	CAGCAGTATA	ACAGGAGGAA	GAGATCCCTC	TCTTTGGTTC	2280
	AGATTATATT	GTTTTCCTAG	CTCTCTCCCT	GCTACCCCTT	TCTCTGAGA	TAGATAGACA	2340
25	CTGGCATTAT	CCCTTTAGGA	AGAGGGGGGG	GCAGCAAGAG	AGCCTATTGG	GGACAGCATT	2400
	CCTCTCTCTC	TGCTGCTGTG	ACATCTCCCT	CTCCTTGTCTG	GCTCCATCTT	TGCTCTGCAC	2460
	TACCAATFCA	ATGCCCTTCA	TCCAATGGGT	ATCTATTTT	GTGTGTGATT	ATAGTAACCTA	2520
	CTCCCTCTCT	TATATGCCAC	CCTCTTCTCT	CTCTTTGACC	CCTGTGACTC	TTTCTGTAAC	2580
	TTTCCAGTGT	ACTTCCCTCA	GCCCTGACCC	AGGCACTAGG	CCTTGGTGAC	TTCTGGGGGC	2640
30	CAAGAACTA	AGGAAACTCG	GCTTTGCAAC	AGGCATTACT	CGCCATTGAT	TGGTGCCAC	2700
	CCAGGGCACA	CTGTGGGAGT	TCTATCACTT	GCTTGACCCC	TGGACCCATA	AACCACTCCA	2760
	CTGTTATACC	CGGGGCACCT	TAACCATCAC	AATCAATCAA	TCAAATTCCT	TTAAATTTGT	2820
	ATGGCAGTGG	AACTTTGGCA	AAGCACTTTT	GACAAGTTGT	GTCTGATTGG	AGCTTCATGA	2880
	TAGCCTTGTG	ACATCTTTAG	GGCAGGATTC	TTATCCCAT	TTTGACAGTG	AAAACCCCTGA	2940
35	GTACACAGAT	TCTGTGGGAC	TGTGGATCTC	ACTGGAAGCT	ATCCAAGAGC	CCACTGTAC	3000
	CTTCTAGACC	ACATGATAGG	GCTAGACAGC	TCAGTTCAAC	ATGATTCTCT	TCTGTCACTT	3060
	CTGCTGGCAC	ACCATGGGCA	AGGCCGAGAA	TGGCGACCTC	TCCTTAGCTC	AATTTCTGGG	3120
	CTGAGGTGTC	TCAGACTGCC	CCCAAGATCA	AATCTCTCTC	GGCTGTAGTA	ACCCAGTGGA	3180
	ATGAATTTGG	ACATGGCCCA	ATGCTTCTAT	ATGCTAAGTG	AAATCTGTGT	CTGTAATTTG	3240
40	TTGGGGGGTG	GATAGGGTGG	GGTCTCCATC	TACTTTTGT	CACCATCATC	TGAAATGGGG	3300
	AAATATGTAA	ATAAATATAT	CAGCAAAGC				3320

Seq ID NO: C198 DNA Sequence
Nucleic Acid Accession #: NM_021987.1
Coding sequence: 572..1657

45	1	11	21	31	41	51	
	GCCAGAGCGT	GAGCCCGCAG	CTCCGCGCAG	GTGGTGGCGC	CGGTCTCCGC	GGAAATGTTG	60
50	TCCAAAGTTC	TTCCAGTCTC	CCTAGGCATC	TTATTGATCC	TCCAGTCGAG	AACATGTATA	120
	CAGAGAAGTG	CTCAATCAT	AAGTGTACAG	CTGATGAGTT	GTCAAAAAT	GACCACAGCG	180
	GTGTAAGAA	AGCCAAATCA	AGGACCGGAA	TGTGAGCAGG	ACCTCAGAAG	CCCCCTTTGT	240
	CACTGCTCTC	CAGCAAGGCG	AGCACTATCC	GGACTTCTAA	CACCATCGGG	TGAGGGGACC	300
	TCAGACTGAA	TCAAGAAATG	AAGCCTCTTC	CGTGATGTT	GTCTATGGCC	CCAGCCCCA	360
55	GCCTCTGGAA	AATCAGCTCC	TCTCTGAGGA	AACAAAGTCA	ACTGAGACTG	AGACTGGGAG	420
	CAGAGTTGGC	AAACTGCCAG	AAGCCTCTCG	CATCCTGAAC	ACTATCCTGA	GTAATTATGA	480
	CCACAAACTG	CGCCCTGGCA	TTGGAGAGAA	GCCCACTGTG	GTCACTGTGG	AGATCTCCGT	540
	CAACAGCCTT	GGTCTCTCT	CTATCCTAGA	CATGGAATAC	ACCAATTGAC	TCATCTTCTC	600
	CCAGACTCTG	AATCTAAGA	GGACCCACGA	GCATGAGATC	ACCATGCCCA	ACCAGATGGT	660
60	CCGCATCTAC	AAGGATGGCA	AGGTGTTGTA	CACAATTAGG	ATGACCATG	ATGCCGGATG	720
	CTCACTCCAC	ATGCTCAGAT	TTCCAATGGA	TTCTCACTCT	TGCCCTCTAT	CTTCTCTAG	780
	CTTTTCTCT	CCTGAGAATG	AGATGATCTA	CAAGTGGGAA	AATTTCAAGC	TGAAATCAA	840
	TGAGAAGAAC	TCTTGGGAAG	TCTTCCAGTT	TGATTTTACA	GGAGTGAGCA	ACAAAACCTGA	900
	AATAATCACA	ACCCAGTTG	GTGACTTCAT	GGTCATGACG	ATTTTCTTCA	ATGTGAGCAG	960
65	GCGGTTTGGC	TATGTTGCC	TTCAAACTA	TGTCCCTCT	TCCGTGACCA	CGATGCTCTC	1020
	CTGGGTTTCC	TTTTGGATCA	AGACAGAGTC	TGCTCCAGCC	CGGACCTCTC	TAGGGATCAC	1080
	CTCTGTTCTG	ACCATGACCA	CGTTGGGCAC	CTTTTCTCGT	AAGAATTTCC	CGCGTGTCTC	1140
	CTATATCACA	GCCTTGGATT	TCTATATCGC	CATCTGCTTC	GTCTTCTGCT	TCTGCGCTCT	1200
	GTTGGAGTTT	GCTGTGCTCA	ACTTCTTGAT	CTACAACCAG	ACAAAAGCCC	ATGCTTCTCC	1260
70	TAAACTCCGC	CATCCTCGTA	TCAATAGCCG	TGCCCATGCC	CGTACCCGTG	CACGTTCCCG	1320
	AGCCTGTGCC	CGCCAACATC	AGGAAGCTTT	TGTGTGCCAG	ATTGTCCACCA	CTGAGGGAAG	1380
	TGATGGAGAG	GAGCGCCCGT	CTTGCTCAGC	CCAGCAGCCC	CCTAGCCCGAG	GTAGCCCTGA	1440
	GGGTCCCCCG	AGCCTCTGCT	CCAAGCTGGC	CTGCTGTGAG	TGGTGCAAGC	GTTTAAAGAA	1500
	GTACTTCTGC	ATGCTCCCGG	ATTGTGAGGG	CAGTACCTGG	CAGCAGGGCC	GCCTCTGCAT	1560
75	CCATGCTCTAC	CGCCTGGATA	ACTACTCGAG	AGTTGTTTTT	CCAGTGACTT	TCTTCTTCTT	1620
	CAATGTGCTC	TACTGGCTTG	TTTGCCCTTA	CTTGATGAGTA	CCAGCTGGTA	CCCTGTGGGG	1680
	CAACCTCTCC	AGTTCCCGAG	GAGGTCCAAG	CCCCTTGCCA	AGGGAGTTGG	GGGAAAGCAG	1740
	CAGCAGCAGC	AGGAGCGACT	AGAGTTTTC	CTGCCCCATT	CCCCAAACAG	AAGCTTGCAG	1800
	AGGGTTTGTG	TTTGTGCCCT	CTCTCCCTCA	CCTGGCCCAT	TCACTGAGTT	TTCTCAGCAG	1860
80	ACCATTTCAA	ATTATTAATA	AATGGGCCAC	CTCCCTCTTC	TTCAAGGAGC	ATCCGTGATG	1920
	CTCAGTGTTC	AAAACACAG	CCACTTAGTG	ATCAGCTCCC	TAAAACCATG	CCTAAGTACA	1980
	GGCGGATTAG	CTATCTTCCA	ACAATGCTGA	CCACAGACA	ATTACTGCAT	TTTTCCAGAA	2040
	GCCCACTATT	GCCTTTGCAG	TGCTTTCGGC	CCAGTTCTGG	CCTCAGCCTC	AAAGTGCACC	2100
	GACTAGTTGC	TTGCTCTATC	CTGGCACCTC	ATTAAGATGC	TGGGCAGCAG	TATAACAGGA	2160
	GGAAGAGATC	CCTCTCTCTT	GGTCAGATTA	TTATGTTCTC	AGTTCCTCTC	CCCTGCTACC	2220

5	CCTTTCTCTG	CAGATAGATA	GACACTGGCA	TTATCCCTTT	AGGAAGAGGG	GGGGGCAGCA	2280
	AGAGAGCCTA	TTTGGGACAG	CATTCTCTCT	TCTCTGCTGC	TGTGACATCT	CCCTCTCCTT	2340
	GCTGGCTCCA	TCTTTGCTCT	GCACCTACCA	TTCATGCCCT	TTCATCCAAT	GGGTATCTAT	2400
	TTTTGTGCTG	GATTATAGTA	ACTACTCCCT	GCTTTATATG	CCACCCCTCT	CCTTCTCTTT	2460
	GACCCCTGTG	ACTCTTTCTG	TAACTTCCCT	AGTGACTTCC	CCTAGCCCTG	ACCAGGCACT	2520
	AGGCCCTTGT	GACTTCTCTG	GGCCAAGAAA	CTAAGGAAAC	TCGGCTTTGC	AACAGGCATT	2580
	ACTCGCCATT	GATTGGTGCC	CACCCAGGGC	ACACTGTCTG	AGTTCTATCA	CTTGCTTGAC	2640
	CCCTGGACCC	ATAAACCACT	CCACTGTAT	ATCCGGGGCA	CTCTAACCAT	CACAATCAAT	2700
10	CAATCAAAAT	CCCTTAAAT	TGTATGGCAC	TGGAACCTTG	GCAAGCACT	TTTGACAACT	2760
	TGTGTCTGAT	TGGAGCTTCA	TGATAGCCTT	GTGACATCTT	TAGGGCAGGA	TTCTTATCCC	2820
	CAITTTGCGAG	ATGAAAAACC	TGAGTCACAG	ATTCTGTGG	GACTGTGGAT	CTCACTGGAA	2880
	GCTATCCAAG	AGCCCACTGT	CACCTTCTAG	ACCACATGAT	AGGGCTAGAC	AGCTCAGTTC	2940
	ACCATGATTG	TCTTCTGTCA	CCTCTGCTGG	CACACCACTG	GCAAGGCCCA	GAATGGCGAC	3000
	CTCTCTTTAG	CTCAATTTCT	GGGCCTGAGG	TGCTCAGACT	GCCCCCAAGA	TCAAATCTCT	3060
15	CCTGGCTGTA	GTAACCCAGT	GGAATGAATT	TGGACATGCC	CCAATGCTTC	TATATGCTAA	3120
	GTGAAATCTG	TGTCTGTAAT	TTGTTGGGGG	GTGGATAGGG	TGGGGTCTCC	ATCTACTTTT	3180
	TGTCACCATC	ATCTGAAATG	GGGAAATATG	TAAATAAATA	TATCAGCAAA	GC	3232

Seq ID NO: C199 DNA Sequence
Nucleic Acid Accession #: NM_021990.1
Coding sequence: 1309..2490

25	1	11	21	31	41	51	
	GCCAGAGCGT	GAGCCGCGAC	CTCCGCGCAG	GTGGTCCGCG	CGGTCTCCGC	GGAAATGTTG	60
	TCCAAAGTTC	TTCCAGTCCT	CCTAGGCATC	TTATTGATCC	TCCAGTCGAG	AACATGTATA	120
	CAGAGAAAGT	CTCAAAATCAT	AAGTGTACAG	CTGATGAGTT	GTCAAAAAAT	GACCCAGCG	180
	GTGTAAAGAA	AGCCAAATCA	AGGACCCGAA	TGTGAGCAGG	ACCTCAGAAG	CCCCCTTTGT	240
	CACCTGCCTC	CAGCAAAAGG	AGCACTATCC	GGACTTCTAA	CACCATCGGT	GAGTTTTCATA	300
30	CCTTGGCAGC	TGGCCTTTAA	CATTTTGTGT	TAAATCAATT	ATTCTTACTA	ATCTTCTTCT	360
	TTTTCTTGGC	TGTGTGTGAT	GGCTGTGGAG	CTCAGGGTGG	ACTCCTGTGT	GGCAGCCAGT	420
	TCCTGGATGG	CTGTCTGTGG	GTGGAGGACT	CCTGCCCTTC	CTGTTTAGAC	ACCCACAAAG	480
	GCTGCTCTTT	AGCCTCTCTC	CCTTCATCCC	CTTCCCTGCG	CCCCAGTGCA	ACGAGTATTA	540
	CACAAACCAAC	AAACCCGCAA	AATATTCCCA	CAATTTCTGT	GTCCCTCTCT	GGAGAGGCCG	600
35	CTCTGGCTTT	TCCCTCTCAG	CCTGGCCCTC	TGCTGCTCTC	TCACTCCTGG	TTGGTCTGCG	660
	TCAGGCTGAC	TAGAGGCCAA	GGCGACCAAC	ACTAGGCAAA	CGCGGCCAGC	GCTCAGACAT	720
	AAATGCCCTC	TTCAATTCAC	GTGTAAACAT	CTTTTAAAT	CTAGGCTCTG	GTTTTGTGTA	780
	TTTTTTCTTA	AATAAAGAG	TGATCATAAA	AGAGGGACAG	CATAGAAAGT	CCCCAAAGAG	840
	CAGCAAGGTT	TTAAGAAAT	TCACAAGCCT	AATCTGTAC	TGCTTTATAA	TTTGTCTATTA	900
40	CCAGTCACAA	TTTAACTAGG	TTTTGTGTGT	AAAACCTGTT	TTGGTTTGCT	TCGTGCCCAA	960
	GAGGCACATG	CTGGGGCCCC	TACAGAGTGC	AGGGCAGAGC	TTCAATTTTC	GTTTGAATGT	1020
	TCTAGGGTGT	AGGGACCTCA	GACTGAATCA	AAGAATGAAG	CCTCTTCCCG	TGATGTGTGC	1080
	TATGGCCCCC	AGCCCCAGCC	CTCGAAAAAT	CAGCTCCTCT	CTGAGGAAAC	AAAGTCAACT	1140
	GAGACTGAGA	CTGGGAGCAG	AGTTGGCAAA	CTGCCAAGG	CCTCTCGCAT	CCTGAACACT	1200
45	ATCCTGAGTA	ATTATGACCA	CAAACCTGCG	CCTGGCATTG	GAGAGAAGCC	CAGTGTGGTC	1260
	ACTGTTGAGA	TCTCCGTCAA	CAGCCCTTGT	CCTCTCTCTA	TCCTAGACAT	GGAAATACCC	1320
	ATTGACATCA	TCTTCTCCCA	GACCTGGTAC	GACGAAACCC	TCTGTACAAA	CGACACCTTT	1380
	GAGTCTCTCT	TTCTGAAATG	CAATGTGGTG	AGCCAGCTAT	GGATCCCGGA	CACCTTTTTT	1440
	AGGAATCTTA	AGAGGACCCA	CGAGCATGAG	ATCAACCATG	CCAACCATAG	GGTCCGCATC	1500
50	TACAAGGATG	GCAAGGTGTT	GTACACAATT	AGGATGACCA	TTGATGCCGG	ATGCTCACTC	1560
	CACATGCTCA	GATTTCCAAT	GGATTCTCAC	TTTGGCCCTC	TATCTTTCTC	TAGCTTTTCC	1620
	TATCTCTAGA	ATGAGATGAT	CTACAAGTGG	GAAAATTCTA	AGCTTGAAT	CAATGAGAAG	1680
	AACTCCTGGA	AGCTCTTCCA	GTTTGATTTT	ACAGGAGTGA	GCAACAAAAC	TGAAATAATC	1740
	ACAAACCCAG	TTGGTGACTT	CATGGTCATG	ACGATTTTCT	TCAATGTGAG	CAGCGGGTTT	1800
55	GGCTATGTGT	CCTTTCAAAA	CTATGTCCCT	TCTTCCGTGA	CCAGATGCTC	CTCCTGGGTT	1860
	TCCTTTTGGG	TCAGAGACAGA	GTCTGTCTCA	GCCCGGACCT	CTCTAGGGAT	CACCTCTGTT	1920
	CTGACCATGA	CCACGTGGGG	CACCTTTTCT	CGTAAGAATT	TCCCGGGTGT	CTCCTATATC	1980
	ACAGCCTTGG	ATTCTCTAT	CGCCATCTGC	TTCGTCTTCT	GCTTCTGCGC	TCTGTGGGAG	2040
	TTTGTCTGTC	TCAACTTCTC	GATCTACAAC	CAGACAAAAG	CCCATGCTTC	TCCTAAACTC	2100
60	CGCCATCTCT	GTATCAATAG	CCGTGCCCAT	GCCCGTACCC	GTGCAGGTTT	CCGAGCCTGT	2160
	GCCCGCCAAC	ATCAGGAAGC	TTTTGTGTGC	CAGATTGTCA	CCACTGAGGG	AAGTGATGGA	2220
	GAGGAGCCGC	CGTCTTGCTC	AGCCAGCAG	CCCCCTAGCC	CAGGTAGGCC	TGAGGGTCCC	2280
	CGCAGCCTCT	GCTCCAAGCT	GGCCTGCTGT	GAGTGGTGCA	AGCGTTTAA	GAAGTACTTC	2340
	TGCATGGTCC	CCGATTGTGA	GGGCAGTACC	TGGCAGCAGG	GCCGCCCTCT	CATCCATGTC	2400
65	TACCGCCTGG	ATAACTACTC	GAGAGTTGTT	TTCCAGTGA	CTTTCTCTCT	CTTCAATGTG	2460
	CTCTACTGGC	TTGTTTGCCCT	TAACCTGTAT	GTACCAGCTG	GTACCTGTGT	GGGCAACCTC	2520
	TCCAGTTCCC	CAGGAGGTCC	AAGCCCTTGT	CCAAGGGAGT	TGGGGGAAAG	CAGCAGCAGC	2580
	AGCAGGAGCG	ACTAGAGTTT	TTCCGTGCCCC	ATTCCCCAAA	CAGAAGCTTG	CAGAGGGTTT	2640
	GTCTTTGCTG	CCCTCTCTCC	CTACCTGGCC	CATTCACTGA	GTTTTCTCAG	CAGACCATTT	2700
70	CAAATTATTA	ATAAATGGGC	CACCTCCCTC	TTCTTCAAGG	AGCATCCGTC	ATGCTCAGTG	2760
	TTCAAAACCA	CAGCCACTTA	GTGATCAGCT	CCCTAAAACC	ATGCCTAAGT	ACAGGCGGAT	2820
	TAGCTATCTT	CCAACAATGC	TGACCAACAG	ACAATTACTG	CATTTTTCCT	GAAGCCCACT	2880
	ATTGCTTTTG	CAGTGTCTTC	GGCCCAAGTC	TGGCCTCAGC	CTCAAAAGTC	ACCGACTAGT	2940
	TGCTTGCTTA	TACCTGGCAC	CTCATTAAAG	TGCTGGGCAG	CAGTATAACA	GGAGGAAGAG	3000
75	ATCCCTCTCC	TTTGTCTAGA	TTATTATGTT	CTCAGTTCTC	TCTCCCTGCT	ACCCCTTTCT	3060
	CTGCAGATAG	ATAGACACTG	GCATTATCCC	TTTAGGAAGA	GGGGGGGGCA	GCAAGAGAGC	3120
	CTATTTGGGA	CAGCATCTCT	CTCTCTCTGC	TGCTGTGACA	TCTCCCTCTC	CTTGCTGGGT	3180
	CCATCTTTGG	TCTGCACTAC	CAATTCAATG	CCCTTCATCC	AATGGGTATC	TATTTTGTG	3240
	TGTGATTATA	GTAACACTCT	CCTGCTTTAT	ATGCCACCTT	CTTCTCTCTC	TTTGACCCCT	3300
80	GTGACTCTTT	CTGTAACCTT	CCCAGTGACT	TCCCCTAGCC	CTGACCAAGC	ACTAGGCCTT	3360
	GGTGACTTCC	TGGGGCCAAAG	AAACTAAGGA	AACTGGGCTT	TGCAACAGGC	ATTACTCGCC	3420
	ATTGATTGGT	GCCCAACCCAG	GGCACAATGT	CGGAGTTCTA	TCACTTGCTT	GACCCCTGGA	3480
	CCATAAACCC	AGTCCACTGT	TATACCGGGG	GCACCTTAAC	CATCACAATC	AATCAATCAA	3540
	ATTCCTTTAA	ATTGTATATG	CACGTGGAAT	TGGCAAGAGC	ACTTTTGACA	AGTTGTGTCT	3600

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GATTGGAGCT TCATGATAGC CTTGTGACAT CTTTAGGGCA GGATTCCTAT CCCCATTTTG 3660
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 AAGAGCCAC TGTCACCTTC TAGACCACAT GATAGGGCTA GACAGCTCAG TTCACCATGA 3780
 TTCTCTCTG TCACCTCTGC TGGCACCACA GTGGCAAGGC CCAGAATGGC GACCTCTCTT 3840
 TAGCTCAATT TCTGGGCTG AGGTGCTCAG ACTGCCCOCA AGATCAAATC TCTCTGGCT 3900
 GTAGTAACCC AGTGAATGA ATTTGGACAT GCCCAATGC TTCTATATGC TAAGTGAAT 3960
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 ATCATCTGAA ATGGGAAAT ATGTAATAA ATATATCAGC AAAGC 4065

Seq ID NO: C200 DNA Sequence
 Nucleic Acid Accession #: NM_021819.1
 Coding sequence: 39..1619

1 11 21 31 41 51
 15 TAGGGCGGTC GCGTAATTG GACGAGGGC GCTCAGTAT GCCGGCGGTC AGTGGTCCAG 60
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 GGGCTGGAAT ACCTTCTCG AGCCATCATG GAGAGCCAT CCTGGGCTG GAGGAAGTGC 240
 20 GGCTGAGCC ATCCATGAGG AACCGGAGTG GCGCGGTGT GAGCAGGGCC TCTGTCCCT 300
 TTCTGCTGT GGAAGTAGAG GTGCAATGA GGGTGACGG ACTGGGGCGC CGGGGAGCCC 360
 ACCGATGCG CGTGTGGTAC ACCCGGGCA GGGCCATGT AGGCTCTGTC CTGGGGGGC 420
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 25 GTCTGCTCAT CCGTGTGCTG GCCAGGACG GGCACATCCC CTCTGAGCAG CTGGGGATG 540
 GAGCTAGCCA AGGGCTGGGC TCCTGTCTAT GGGACTTCCG GAACCGGCA CACCCCTTCA 600
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 CCACTGATCC AGGTGAGTTC TGTGTGGATG TGGGGCCCT GCTTTGTGTC CTGGAGGTT 720
 TCTTGGGGT CTAGCAGGCC ACCGGCACCC TGGCAGATGA TCATGATGTC CTGTCTTCC 780
 30 TGACCTTCAG CCTGAGTGAG CCCAGCCAG AGGTTCCCTC TCAGCCCTTC CTGGAGATGC 840
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 GGGAGGATGT AACTCCAAAA TCAGACTCTG AAGCTCAAGG AGAAGGGGAA AGGCTCTTTG 960
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 AGCAGCTGG CAGGCTGAG AGACAATGGA AGAAGCAGCT GGGGCCCA GGCAGGCA 1080
 35 GGCCTGACCG AGGCTGGGCC CTGGATGCTT CTGCTCAGAT TCCATCCACC CCAGGGAGGG 1140
 GTGGCCACCT CTCATGTCA CTCATAAGG ACTCTGCCAA GGTCGGTGCC CTGCTCCATG 1200
 GACAGTGGAT TCTGCTCCAG GCCCTGCAAG AGATGAGGGA TGCAGCTGTC CGCATGGCTG 1260
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 40 CCGGCCACC TGGCCAGCCC CCAAGGGCT CTCTGTGCT GCAAGCTGGC ATCTTCTGT 1440
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 45 TCAGTATCT CTCTGTGAG GTGCCAGCT CCCAGCACA CCTGAGCTT CGGCATGCTC 1740
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Seq ID NO: C201 DNA Sequence
 Nucleic Acid Accession #: XM_117036.1
 Coding sequence: 25..495

1 11 21 31 41 51
 55 AGCCAAAGAGA GGGGGGACAG ACAGATGGAA AGACGGACAC GGGGAGCTCT GGGGAGCAGG 60
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 ATGGCTTGG CGGGCAGCT CTGGAGACAC ACATGCCAAG GCAGGGCCNG GGCAGCCGAG 180
 GGGCGTGGG GGTCTTCCG ACCACACAGG TGCCCGAGG AGGCAGGGCA GGGCCCGGTG 240
 GGAACCCAGC CGAAAACCA GGGTGTGCG CACGTTTGA GCGCGCTCG CGTGTCTGGT 300
 60 GATGAGCGGG AACCGGGGG CGGCGCTTAC GCAATGCAG TTACGCGCG GTGGAAGGG 360
 TGTCACGCC ACAGCGGGC CACCGTGGT GGTCTGTGTT CCTGGAAACG TCCGAACAG 420
 GCAGCCCCG AGACAGGGAG GGGCCAGCG GTGCCAGGG GAAGTGGGGA TGGGAATGAG 480
 TGCGGATGG GCTGAGGTT TCTCTAAGG ATGAATGCTC TGAATCTGT AATAGACACA 540
 CGGAATCTG CACGTTACN GGTGAACGT GTGGGAGTG AATCCATCTC AACAGAGCTG 600
 65 TTACACAGT ACAAGAGCA CAGGGGTGG AGGCCNCTG TCTGCTCTG CAGATGAGC 660
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Seq ID NO: C202 DNA Sequence
 Nucleic Acid Accession #: XM_167803.2
 Coding sequence: 1162..1488

1 11 21 31 41 51
 75 AACATCATAC ATAGTAGGTG AATCGTTTGT TAGAGTGAAG AATGCTAATG TAAAGCAAAT 60
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 GTCGGCCCA ACTGATCTCT CTCTTTGGC GGGCTGGGGA GCGGCCCA GCGGGAGCG 180
 GAGGCGAGC ACCCGAGGC CTCTGTGAGC TGGGAGAGAG TGTGGTGGGA AGTCTTGAGC 240
 GAGGAGGGG ATCTGCCCTT CTCCATCTCT CTCTTGGATC GCGCTCGGT TCTGTCTCCC 300
 80 CCACCAAGC CCGTCCCGC GGAAGACCG CAGTGAGCC AGCCCCAC TCCAGGCGC 360
 CTCTGCGCTG GGGATCCAAC CAATCTGTAT CGAGTGGCG GGGCAACGCG TCCCATTTT 420
 TCCCGAGCCC CGCCACAGA GCTCTTAGCC AATCCTATGC AGAGAGCATC TCCTGGCAGG 480
 GGTCTCTTCC CAACAGAGC CCACCAAGC ACATTAGCGA CAGGCTTGG GCTTCCCGAG 540
 CGCCCAACA CCACAGCTG CAGGTGGAGC TCTGGGATGC TATGTTGGG CGGCAAGCG 600
 TGGCCGAGG CGCGGTAGG CTAGCACGG AGGTAAGGT GGTATGGAT GGGCGGGG 660
 CGGTCTAGG CAATAGGAGA GCAGAGAATG GGGGAACCTG AGGTGGGGG GAGGCAACCG 720

5	GAGCCTTGCC	ACCATCCCAG	GACTTTGGGC	AAGTCACCCG	CACCTCCCTGG	GCCTCGGTTT	780
	CCCCATCTGT	AAAATGATGG	TAATAATACT	TCACCTACCT	CATAGGGGAG	GTGTGTAGGC	840
	CACCATCAC	TGACCTGGGG	GTCAAGGCAG	GAGGACTCCG	AAGGTGCTAC	CCGTGAGCAA	900
	AGTGTAATTA	CGGAATCTCTG	ACTGCAAGGC	CCACCTGCCC	CTCCCCACA	GAGCCTCCAG	960
	AGCTAGCTGA	GGCCAACGCA	GGCCATCCG	TCTCTTCACT	CTGTGCGAGG	CCCTTTTCATG	1020
	GGCTTCGTCT	GCCATCTTTG	TGGGTGCCCT	AGACTTAGTC	CTTATCTTGT	CCTGGTTTCC	1080
	TTTCTTGTA	CCATCTCCCC	ATGAAAGTGC	TGTACAAAT	CCACCCGCCC	CAGGACCCCC	1140
	GCACCTGCC	TCTGGCAGCA	GATGCCAGGG	AAGGGACAGA	GGAAACAGC	CACAAACAAG	1200
	CCAGGGGGG	TCCCCGAGC	CCCAGGGGTG	GGGATTGGTG	GCCACTGTTT	GTATGTTCTT	1260
10	GAGTGCAAGT	GTTTATATAA	AAATAAAACA	AAAACCCACC	ATCACAAAAA	AAAAAATTTT	1320
	GCAGCGAAGA	GAAATGAAGA	AAAACCTGAAG	AAAAAAGAAA	AACAGGAAAA	AAAGAACCAT	1380
	ACAAAATTTT	TCCACCACAC	ATACCTCTTA	AGCCAGCAAG	ATTTCTCTTT	TGCAAAATCA	1440
	TATTTTGTG	GGAAATGGGC	CTGCTTTTGG	TGGCAAGGCC	TGTTCTGATT	AATAAAGGAT	1500
15	CGTAAAAAAG	T					1511

Seq ID NO: C203 DNA Sequence
Nucleic Acid Accession #: NM_024780.1
Coding sequence: 31..1023

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	CCACGGCAGC	AAGTCTACGT	TCTCCTGATC	CGAAACATCT	TTTTGAAAT	ATCAATCATT	120
	GGCATTCTTT	GTACTATTTG	GCTCAACACC	GTGGCCTGT	CTGGTGAAGA	GTGTTGGGAA	180
25	ACCCCTCATG	GCCAGGACAT	CTACCGGCTC	CTTCTGATGG	ATTTTGTGTT	CTCTTTAGTC	240
	AATTCCTTCC	TGGGGGAGTT	TCTGAGGAGA	ATCATTGGGA	TGCAACTGAT	CACAAGCTT	300
	GGCCTTCAGG	AGTTTGACAT	TGCCAGGAAC	GTTCTAGAAC	TGATCTATGC	ACAAACTCTG	360
	GTGTGATTG	GCATCTTCTT	CTGCCCTTTA	CTGCCCTTTA	TCCAAATGAT	TATGCTTTTC	420
	ATCATGTTCT	ACTCCAAAAA	TATCAGCCTG	ATGATGAATT	TCCAGCCTCC	GAGCAAAGCC	480
30	TGGCGGGCCT	CACAGATGAT	GACTTTCTTC	ATCTTCTTGC	TCTTTTTCCT	ATCCTTCACC	540
	GGGGTCTTGT	GCACCTTGGC	CATCACCATC	TGGAGATTGA	AGCCTTCAGC	TGACTGTGGC	600
	CCTTTTCGAG	GTCTGCTCT	CTTCATTAC	TCCATCTACA	GCTGGATCGA	CACCTTAAGT	660
	ACACGGCCTG	GCTACCTGTG	GGTTGTTTGG	ATCTATCGGA	ACCTCATTGG	AAGTGTGCAC	720
	TTCTTTTTC	TCTCACCCT	CATTGTGCTA	ATCATCACCT	ATCTTTACTG	GCAGATCACA	780
35	GAGGGAAGGA	AGATTATGAT	AAGGCTGCTC	CATGAGCAGA	TCATTAATGA	GGCCAAAGAT	840
	AAAATGTTC	TGATAGAAAA	ATTGATCAAG	CTGCAGGATA	TGGAGAAGAA	AGCAAACCCC	900
	AGCTCACTTG	TTCTGGAAAG	GAGAGAGGTG	GAGCAACAAG	GCTTTTTCGA	TTTGGGGGAA	960
	CATGATGGCA	GCTCTGACTT	GCGATCTAGA	AGATCAGTTC	AAGAAGGTAA	TCCAAGGGCC	1020
	TGATGACTCT	TTTGGTAACC	AGACACCAAT	CAAATAAGGG	GAGGAGACGA	AAATGGAATG	1080
40	ATTTCTTCCA	TGCCACCTGT	GCCTTTAGGA	ACTGCCCAGA	AGAAATCCA	AGGCTTTAGC	1140
	CAGGAGCGGA	AAGTACTATC	CATGTAATTA	TCAAAGTAAA	ATTGGGCAIT	CCATGCTATT	1200
	TTTAATACCT	GGATTGCTGA	TTTTTCAAGA	CAAAATACTT	GGGGTTTTC	AATAAAGATT	1260
	GTGTAAATAT	TGAAATGAGC	CTACAAAAAC	CTAGGAAGAG	ATAACTAGGG	AATAATGTAT	1320
	ATTATCTTCA	AGAAGTGTGT	GCAGGAATGA	TTGGTTCTTA	GAAATCTCTC	CTGCCAGACT	1380
45	TCCCAGACCT	GGCAAAGGTT	TAGAAACTGT	TGCTAAGAAA	AGTGGTCCAT	CCTGAATAAA	1440
	CATGTAATAC	TCCAGCAGGG	ATATGAAGCC	TCTGAATGT	AGAACTTGCA	TTTATTTGTG	1500
	ACTTTGAAC	AAAGACATCC	CCCATGTCCC	AAAGGTGGAA	TACAACCCAG	GGTCTCATCT	1560
	CTGAACCTTC	TTGCGTACTG	ATTACATGAG	TCTTTGAGT	CGGGATGGA	GGAGGTTCTG	1620
	CCCTGTGAG	GTGTATATACA	TGACCATCAA	AGTCTACCT	CAAGTAGCT	TTGCAGTGGC	1680
50	AGTACCGTAG	CCAATGAGAT	TTATCCGAGA	CGCGATTATT	GCTAATTGGA	AATTTTCCCA	1740
	ATACCCACC	GTGATGACTT	GAAATATAAT	CAGCGCTGGC	AATTTTGGAC	AGTCTCTAGC	1800
	GAGACTGAAT	AAG					1813

Seq ID NO: C204 Protein Sequence
Protein Accession #: Eos sequence

55	1	11	21	31	41	51	
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	CAGTGGAGAA	GAAGGCTTGC	AGGAGGCAGG	AGATGCTGTC	CGATGACCA	GTGAATGAAA	240
	TCATCATACA	GGTTGAGAAT	GTTTCTCTCT	GGGTCCAAAG	CCACCCATCC	TCAAATCAGA	300
	TTTTTCAAGA	AAAGGTGCTG	CTAGACTCAA	GCATCAACAT	GGTTTGTGCA	ATATCTGACA	360
65	TGATGTGAT	AGACTCTCAG	ACAGTCAGCA	AAAGGAATGA	CCAAAAGGGT	AACCAGGTGC	420
	TGCGGTTTTC	AACATCTTTG	AATGAGTGA	TGCTCAGAC	CCTTCATAGC	CTAGAATGCA	480
	TGGGCATAGA	CACCTCTGGT	TCTTCACATG	AAACTGTTCA	AGGACAGAG	TTAATCGCAT	540
	CCCTTATACA	CATGACATCC	AGAGACAGAA	TTAAAGCCAT	CAGGAACAG	CCAAGGACCA	600
	TGGAAGAGAA	AAGGAACCTT	AGGAAATAG	TTGACAAAGA	AAAAAGCAAA	CAGACCCATC	660
70	GTATCCTTCA	GCTCAATTGC	TGTATTCACT	GTCTGAATC	CATTTCCCGG	GCTTATCGGA	720
	GATCCAAGAA	CAGCCTGTG	GAAATCTGA	ATTCCATCAG	CCTGTGGCAG	AAGACGCTGA	780
	AGATCATTGG	AGGCAAGTTT	GGAACACGCG	TCTCTCTCTA	TTTCAACTTT	CTGAGATGGC	840
	TTTTGAAGTT	CAACATTTTC	TCAATCATCC	TGAACCTCAG	CTTCATCATA	ATCCCTCAGT	900
	TTACCGTGGC	CAAAAGAAAC	ACCCTCCAGT	TCACTGGGCT	GGAGTTTTC	ACTGGGGTGG	960
75	GTTATTTTGA	GGACACAGTG	ATGTACTATG	GCTTTTACAC	CAATTCACAC	ATCCAGCAGC	1020
	GGAAACAGCG	GGCATCTCTAC	AACATGACAG	TGGCCTACAT	CTTCAACATC	GGAGCATGCT	1080
	TGACCACTCT	CTTCTTCACT	TTGCTGTCCA	GCAATGGCCAA	GTATTTCCGG	AACAACCTCA	1140
	TTAATCCCCA	CTTTACTTCC	GGAGGGATCA	CCAAGCTGAT	CTTTTGTGCG	GACTTCACTG	1200
	TCATCTATGA	AAAAGCTGTG	AGGCTAAAC	AGAAGAATCT	TAGCACTGAG	ATAAGGGAGA	1260
80	ACCTGTGAGA	GCTCCGTGAG	GAGAATTCGA	AGTTGACGTT	CAATCAGCTG	CTGACCCGCT	1320
	TCTCTGCTCA	CATGCTAGCC	TGGGTGTGCT	CTACAGGAGT	GGCCATAGCC	TGCTGTGAGC	1380
	CGGTTATTTA	CCTGGCTGAG	TACAACCTAG	AGTTCTCTGAA	GACACACAGT	AACCTGGGGG	1440
	CGGTACTGTT	ACTGCCTTTC	GTTGTGCTCT	GCATTAATCT	GGCCGTGCA	TGCATCTACT	1500
	CCATGTTTCA	GCTTGTGGAG	AGGTACGAGA	TGCCACGGCA	CGAAGTCTAC	GTTCTCTCTGA	1560

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TCGGAACAT CTTTTGA AAA ATATCAATCA TTGGCATTCT TTGTTACTAT TGGCTCAACA 1620
CCGTGGCCCT GTCTGGTGAA GAGTGTGGG AAACCTCAT TGGCCAGGAC ATCTACCGGC 1680
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GAATCATGG GATGCAACTG ATCACAAGTC TTGGCCTTCA GGAGTTTGAC ATTGCCAGGA 1800
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TGCTGCCCTT TATCCAAATG ATTATGCTTT TCATCATGTT CTACTCCAAA AATATCAGCC 1920
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GTTGCTAAGA AAAGTGGTCC ATCCTGAATA AACATGTAAT ACTCCAGCAG GGATATGAAG 2940
CCTCTGAATT GTAGAACCTG CATTTAATTG TGAATTTGAA CTAAAGACAT CCCCATGTC 3000
CCAAAGTGG AGCTCAACCA GAGGTCTCAT CTCTGAACCT TCTTGCCTAC TGATTACATG 3060
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AAAGTCTAC GTCAAGCTAG CTTTGCAAGT GCAGTACCGT AGCCAATGAG ATTTATCCGA 3180
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ATCAGCGCTG GCAATTTTTC ACAGTCTCTA CGGAGACTGA ATAG 3285

Seq ID NO: C205 DNA Sequence
Nucleic Acid Accession #: NM_002250.1
Coding sequence: 397..1680

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CAGGATTTAG GGGCGCGCT GACCTCCCGC CAGCCCTGGC CGGGATTCTT GGGCCAAGGG 840
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Seq ID NO: C206 DNA Sequence
Nucleic Acid Accession #: NM_025257.1
Coding sequence: 1..2139

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 CCGGAGGACC CATGACATGT GGGAAAAAAC GAGTTCCTAC AGACTGTTGG GGAAGTCTTC 420
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 10 ATCTTTGAAG ATTTTGCCCA GTCTCGGTAT TGGATTCTTG TTGCCCTGGG GGTGGCTCTG 720
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 25 TTGGAGTATA TTGACCACAA GCTCAGAGGA GTGCAGAAC CTGTAGCCCG CTGCATCATG 1620
 TGCTGTTTCA AGTGTGCGCT CTGGTGTCTG GAAAAATTTA TCAAGTTCCT AAACCGCAAT 1680
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 ATGCTACTCA TGGAAACAT TGTGAGGGTG GTCTGCTGCG ACAAGTCTAC AGACCTGCTG 1800
 CTGTTCTTTG TGAAGCTGCT GGTGGTGGGA GCGTGGGGG TCTGTCTCTT CTTTTTTTTC 1860
 30 TCCGGTCGCA TCCCGGGGCT GGGTAAAGAC TTAAAGAGCC CCCACCTCAA CTATTACTGG 1920
 CTGCCCATCA TGACCTCCAT CCTGGGGGCC TATGTCATCG CCAGCGGCTT CTTGAGCGTT 1980
 TTGGCATGTG GTGTGGACAC GCTCTTCTCT TGCTTCTGCG AAGACCTGGA GGGGAACAAAC 2040
 GGCTCCCTGG ACCGGCCCTA CTACATGTCC AAGAGCCTTC TAAAGATTCT GGGCAAGAGG 2100
 AACGAGGCGC CCGCGACAAA CAAGAAGAGG AAGAAGTGAC AGCTCCGGCC CTGATCCAGG 2160
 35 ACTGCACCCC ACCCCCACCG TCCAGCCATC CAACCTCACT TCGCTTACA GGTCTCCATT 2220
 TTGTGGTAAA AAAAGGTTT AGGCCAGCGG CCGTGGCTCA CGCTGTAAAT CCAACACTTT 2280
 GAGAGGCTGA GCGGGCGGGA TCACCTGAGT CAGGAGTTG AGACACAGCT GGCCAAACATG 2340
 GTGAAAC 2347

Seq ID NO: C207 DNA Sequence
 Nucleic Acid Accession #: NM_016180.1
 Coding sequence: 26..1618

1 11 21 31 41 51
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 CAGCAGACTC ATCATGCACA GCATGGCCAT GTTCGGAAGA GAGTTCCTCT ACOCGGTGGG 180
 GGCAGCGTAT GTGACCCCA TCCTGCTCAG CGTAGGTCTG CCCAGCAGCC TGTACAGCAT 240
 50 TGTGTGGTTT CTCAGCCCCA TCCTGGGATT CTTGCTGCAG CCCGTGCTCG GATCGGCCAG 300
 CGACCACTGC CGGTCCAGGT GGGGCCCGCG GAGACCTTAC ATCCTCACCC TGGGAGTCAAT 360
 GATGCTCGTG GGCATGGCTC TGTACCTCAA TGGGGTACT GTTGTAGCAG CTTTGATTGT 420
 TAAACCAAGG AGGAAGCTGG TTTGGGCCAT AAGTGTCACT ATGATAGGTT TCGTCTCTCT 480
 TGATTTTGCT GCCGACTTCA TTGATGGGCC CATCAAAGCC TACTATTGAT ATGTCTGCTC 540
 55 CCATCAGGAC AAGGAGAAGG GCCTCCACTA CCATGCCCTC TTCACAGGTT TTGAGGTTGC 600
 CCTGGGTTAC CTTTGGGTG CTATAGACTG GGGCCATCTG GAGCTGGGAA GACTGTGTGG 660
 TACAGAATTC CAGGTCTGCT TCTTCTCTCT TGCTATGGTG CTCACTTTGT GTTTTACTGT 720
 TCATCTGTGC AGTATCTCTG AAGCCCACTC TACAGAGGTT GCAAGAGGCA TTCCCCACCA 780
 GCRAACCCCT CAGGACCCCTC CATTGTATC AGATGGAATG TACGAGTATG GTTCTATCGA 840
 60 GAAAGTTAAA AATGGTTACG TAAATCCAGA GCTGGCAATG CAGGAGCAAA AAAACAAAAA 900
 TCATGCTGAA CAGACTCGCA GGGCAATGAC ATTAAAGTCA CTGCTGAGAG CACTGTGTGA 960
 CATGCTCCTT CACTACCGCT ACCTTTGCAT CAGCCACCTC ATTGATGGA CGGCCTTCCT 1020
 GTCCACAGC CTGTTCTTCA CAGATTTCAT GGGCCAGATT GTGTACCGCG GGGATCCCTA 1080
 65 TAGTGCACAC AACTCCACAG AGTTTCTCAT CTACGAAAGA GGAGTCGAGG TTGGATGTTG 1140
 GGGCTTCTGC ATCAACTCGG TGTTTTCTCT ACITTTATTCT TACTTTCAGA AAGTTTGGT 1200
 ATCCTACATT GGATTAAAGG GTCTTTACTT CACGGGATAT TTGCTGTTTG GCCTGGGGAC 1260
 GGGATTATTG GGGCTCTTCC CGAATGTCTA CTCCACCTCG GTCTGTGCA GCCTGTTTGG 1320
 TGTAAATGTC AGCACCTGT ACCTGTGCC CTTTAACTCT ATTACTGAGT ACCACCGCGA 1380
 70 GGAAGAAAAG GAGAGGACAG AGGCCCCAGG AGGGGACCCA GACAACAGCG TGAGAGGGAA 1440
 GGGCATGGAC TGGGCCACCC TCACATGCAT GGTGCAGCTG GCTCAGATCC TGGTCCGAGG 1500
 TGGCCTGGGC TTTCTGGTCA ACACAGCCGG GACCGTTGTC GTCTGTGTA TCACAGCGTC 1560
 TGCGGTGGCA CTGATAGGCT GTTGTCTTGT CGCTCTCTT GTTAGATATG TGGATTAGGT 1620
 CAATAAAGAG ACAATGACCC TAAAAAATAA 1650

Seq ID NO: C208 DNA Sequence
 Nucleic Acid Accession #: NM_003273.1
 Coding sequence: 255..2024

1 11 21 31 41 51
 80 CGCGCGGGG CGGATCCTC CGCGCGGGCG AGTCCATCTC CTGGGAAATG GGGCGACAG 60
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 CCCACTCAGG CCCCAGGGCC CGCTGGAAT TCGGAGGGCC CTTGGGTAAT GGGGAGAGGA 180
 GATGGGACCT GGGCAAGAG CTAAGCGAAG GAGAGCTGGA GCGGGTGAAC TAAGAGCGGG 240
 GCGAGATCT GAGGATGGAA GGCCTTGGGG GTGTCGAGG CAGAGGGACC CGGGGGTTTG 300

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CAGCGAAGGG TGTCTGGAGA GGGAGAGCTG AGGAGGGGCC GGTTCCTGGG GCTGCAGAAC 360
GGGGATTTAT GGTGTCTGACT GGGAGCAGGA GGAGGGTCTT CGAGGGGCGT GGGGGCGGGG 420
GACTAAGATG GACGCTCTGG GAGGGAACTG GGAGGCAGCG GGGTGCTTGG GGGCCGAGGG 480
CTGAGGACGG GGTGCGGAGG CGCACTCTGG GAATGCCGAG AGGGTCCCGC AGAGACGCTCA 540
GGGCGCCCTG CGGCGCGGCG GGGAGCTGGG GGGCTAGGGG CGGACGCCGA CGTGATGGCC 600
CTTCCCGCAG GCGCGCGGCG TCTGCTACTG CTGCTGCCCG CCACCATGTT CCACCTGCTC 660
CTGGCGGCCC GTTCGGGCCC CGCGCGCCTG CTGGGTCCAC CCGCGTCCCT GCCCGGGCTG 720
GAGGTGCTGT GGAGCCACG GCGCTGCTG CTGTGGCTCG CTGGCTCGG CCGCAGGGCG 780
GCGCTCTACC TACTGCCGCG GCGCAAGGTG CGGGCCCCGC TCGCGGACGC TCGGGGGAGG 840
GAAGCGAATG GGTCTGGCGA GGGAAAGGAC GCCCGGGGCC TTATCAGAGC CCCCTTGGAC 900
CGCAGTGGC CGAGGGGCGAG GAATTGAAGG ACAAGAGTCG CCGCGCTAT CCTATTAAAG 960
GCTTCCAGGC CTTGGTGTCT ACAGCCCTGT TGGTGGGGCT GGGGATGTCA GCGGGGCTGC 1020
CTCTGGGGCG GGTCCCGGAA ATGCTCCTGC CCTTGGCGTT TGTGCCACCC CTCACCGCTT 1080
TCATCTTCAG CCTCTTCTC TACATGAAG CGCAGGTAGC CCCAGTTTCG GCCCTGGCAC 1140
CTGGGGGAA CTTCAGCAAT CCGATTACG ACTTTTCTT GGGACGAGAG CTCAACCCCTC 1200
GTATCTGTTT CTTGCACTTC AATATTTCT GTGAAGTCG ACCCGGCTC ATCGGCTGGG 1260
TCCTCATCAA CTTGGCCCTG TTGATGAAG AGGCAGAGCT TCGAGGCAGT CCCTCACTGG 1320
CCATGTGCTT GGTGAAGTGC TTCCAGTTGC TCTACGTGGG TGAATGCCCT TGGCAGGAG 1380
AGGCCGTCTT CACCACCATG GATATCACAC ATGACGGGTT TGGCTTCATG CTGGCGTTTG 1440
GGGACATGGC CTGGGTGCC TACACCTACA GCCTGCAGGC CCAGTTCCTG CTGCACACC 1500
CGCAGCCCTT GGGGTTGCC ATGGCCTCTG TCATCTGCTT CATCAATGCT ACTGTTACT 1560
ACATCTTCG TGGGGCGAAT TCCAGAAAA ACACCTTCG AAGAATCCT TCTGACCCCA 1620
GAGTGGCTG GGTTCAGACC ATCTCTACG CCACAGGGCG GAACTGCTG GTGTCTGGGT 1680
GGTGGGTAT GGTCCGCCAT CCCAACTATC TTGGAGACCT CATCATGGCT CTGGCTTGGT 1740
CCTTGCCTG CGGGGTGTCA CACCTGTGCT CTTACTTCTA CTTCTCTAC TTCACCGCGC 1800
TGCTGTGCA CCGTGAAGCC CGGATGAGC GAGTGGCTG CAGAAGTACG GCTTGGCTG 1860
GCAGGAGTAC TGGCGCGTGT TGCCCTTACC CATCATGCCC TACATCTACT GAAGCGGCTC 1920
CACCAACCCA GTTGGGGCAT GTGCCACTC ATCCACCAGC ACACCCAGGA CCAGGAGCTC 1980
CGACACACTT GGGACTCAAG GGTGTGACC CCACCCAGCC CTGAGGATGA ACAACCTCAG 2040
AGAAGAGGTG GTTTAGAGCA AGGAAAAAAA TGAACCAAGT GACCAAAAAA AAAAAAAA 2100

Seq ID NO: C209 DNA Sequence
Nucleic Acid Accession #: NM_015720.1
Coding sequence: 21..1838

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TTTCCGCGCT GCTGCTTCTG CTGGTTGGGG GAGCGTTCTT GGGTGCCTGT GTGGCTGGGT 120
CTGATGAGCC TGGCCAGAG GGCCTCACTT CCACCTCCCT GCTAGACCTC CTGCTGCCCA 180
CTGGCTTGGG CCGTCTGAGC TCAGAGGAGC CTAGTGAGAC CATGGGCTGT GGAGCTGGGG 240
TGGGAGCCCC TGGCTCAGGC TTCCCGAGCG AAGAGAATGA AGAGTCTCGG ATTCTGCAGC 300
CACCAAGTGA CTTCTGGGAA GAGGAGGAAG AGCTGAATGA CTCAAGTCTG GACCTGGGAG 360
CCACTGCAGA TTATGTTTTT CTTGACTTAA CTGAGAAGGC AGGTTCCATT GAAGACACTA 420
GCCAGGCTCA AGAGCTGCCA AACCTCCCTT CTCCCTTGCC CAAGATGAAT CTGGTTGAGC 480
CTCCCTGGCA TATGCTCCCT AGAGAGGAGG AAGAAGAGGA AGAGGAAGAG GAGGAGAGGG 540
AGAAGGAAGA GGTAGAGAAA CAAGAGGAGG AGGAAGAGGA GAGAGTGTCT CTTGTGAATG 600
GATCCCAAGA AGAAGCCAAG CTTGAGTCC GTGACTTTTC TCTACCCAGC AGCAGCCAGA 660
CCCCAGGGGC CACCAAAAGC AGGCATGAAG ACTCCGGGGA CCAGGCTTCA TCAGGTGTGG 720
AGGTGGAGAG CAGCATGGGG CCCAGCTTGC TGCTGCTTTC AGTCAACCCA ACTACAGTGA 780
CTCGGGGGA CACAGACTCC ACCAGCCAAG AGGCAGAGGC CACAGTGTCT CCAGCTGAGC 840
GGCTTGGGGT AGAGTTCGAG GCTCCTCAGG AAGCAAGCGA GGAAGCCACT GCAGGAGCAG 900
CTGGTTTGTG TGGCCAGCAG GAGGAGGTGC CGGCCTTGCC TTCTTCCCT CAAACCAACG 960
CTCCAGTGG GGCAGAGCAC CCAGATGAAG ATCCCTTGG CTCTAGAAC TCAGCTCTT 1020
CCCCACTGGC CCTCGGAGAC ATGGAATGA CACCTTCTCT TGCTACCTTG GGACAGAAAG 1080
ATCTCAACCA CAGCTCTCTA GAAGGGCAGG CAGCTGAAGC TCAATCCAGG ATACCTTGGG 1140
ATTCTACGCA GGTGATCTGC AAGGACTGGA GCAATCTGGC TGGAAAAAAC TACATCATTC 1200
TGAACATGAG AGAGAACATA GACTGTGAGG TGTTCGGGCA GCACCGGGGG CCACAGCTCC 1260
TGGCCCTGCT GGAAGAGGTG CTGCCCGGCC ATGGCAGTGG CCACCATGGG GCTTGGCACA 1320
TCTCTCTGAG CAAGCCAGC GAGAAGGAGC AGCACCTTCT CATGACACTG GTGGGGGAGC 1380
AGGGGTGGT GCCCACTCAA GATGTCTTTC CCATGCTGGG TGACATCCCG AGGAGCTTGG 1440
AGGAGATTGG CATCCAGAAC TATTCCACAA CCAGCAGCTG CCAGGCGCGG GCCAGCCAGG 1500
TGCGCAGGGA CTACGGCAGC CTCTTCGTGG TGCTGGTGGT CATTTGGGCC ATCTGCATCA 1560
TCATCATTGC GCTTGGCCTG CTCTACAACT GCTGGCAGCG CCGGCTGCCC AAGCTCAAGC 1620
ACGTGTGCGA CGCGAGGAG CTGCGCTTGG TGAGAAACCG CTGCCACGAC AACCCACAGC 1680
TGGACGTGGC CAGCGACAGC CAGTCGGAGA TGACAGGAGAA GCACCCAGC CTGAACGGCG 1740
GGGGGGCCCT CAACGGCCCG GGGAGCTGGG GGGCGCTCAT GGGGGGCAAG CGGAGCCCGG 1800
AGGACTCGGA CGTGTTCGAG GAGGACAGC ACCTGTGAGC GCAGCGAGGC GCAGGCGGAG 1860
TGGGCGGCA GAGCAAGCG AGGTGGACCC CGAAACGGAC GGGCCGGAGC CCGCACCAGC 1920
CCCGCGCTCA CCGGGCGGCT CCGCGGCTG GCGCTGGGG GGGGCTCCTT CCGCTTCCC 1980
CCGACTTAC ACGGGCGGCT CCGGACCACT CCTCACTCC CGCCGAGGG GCAGGCGCTCA 2040
AAGCCCGCT TGGCCCGCTT TCCCGCCCC TGAACCCCG CCGCGCGGC GGGGGGCGCG 2100
CTTCTGCGC CCGGGGACTC AATTAAACCC GCCCGGAGAC CACGCGGGCC CAGCGAAAAA 2160
AAAAAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA 2220
AAAAAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA 2269

Seq ID NO: C210 DNA Sequence
Nucleic Acid Accession #: NM_001197.3
Coding sequence: 61..543

1 11 21 31 41 51
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ATGTCTGAAG TAAGACCCCT CTCCAGAGAC ATCTGTATGG AGACCTCTCT GTATGAGCAG 120

5 CTCTGGAAC CCCCGACCAT GGAGGTTCTT GGCATGACTG ACTCTGAAGA GGACCTGGAC 180
 CCTATGGAGG ACTTCGATTTC TTGGAATGTC ATGGAGGGCA GTGACGCATT GGCCCTGCGG 240
 CTGGCTGCA TCGGGGACGA GATGGACGTG AGCCTCAGGG CCCCGCGCTC GGCCAGCTC 300
 TCCGAGGTGG CCATGCACAG CCTGGGCTG GCTTTCATCT ACGACCAGAC TGAGGACATC 360
 AGGGATGTTT TTAGAAGTTT CATGGACGGT TTCACACAC TTAAGGAGAA CATAATGAGG 420
 TTCTGGAGAT CCCCGAACCC CGGGTCTCTG GTGTCTCTCG AACAGGTGCT GCTGGCGCTG 480
 CTGTCTGTGC TGGCGCTGCT GCTGCCGCTG CTCAGCGGGG GCCTGCACCT GCTGTCTCAAG 540
 TGAGGGCCCG GCGGCTCAGG GCGGGGCTGG CCCACCCCC ATGACCACTG CCTGGAGGT 600
 GGCGGCTGCG TGCTGTATC TTTTAACTG TTTTCTCATG ATGCCCTTTT ATATTAAAC 660
 10 CCGAGATAG TGCTGGAACA CTGCTGAGGT TTTATACTCA GGTTTTTTGT TTTTTTTT 720
 TTCCAGTTT CGTTTTTTCT AAAAGATGAA TTCCTATGGC TCTGCAATTG TCACCGGTTA 780
 ACTGTGGCCT GTGCCCAGGA AGAGCCATTC ACTCTGCCC CTGCCACAC GGCAGGTAGC 840
 AGGGGAGTG CTGCTCACAC CCCTGTGTGA TATGTGATGC CCTCGCAAA GAATCTACTG 900
 15 GAATAGATTC CGAGGAGCAG GAGTGCTCAA TAAATGTTG GTTCCAGCA AAAAAAAAAA 960
 AAA 963

Seq ID NO: C211 DNA Sequence
 Nucleic Acid Accession #: AF272357
 Coding sequence: 83..1060

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 GCGGCTGCTG CGGCTGCTGC TCTCCGCTCT CGTCTCTGCG GCGGCTCTGC GTGGAGCCGC 120
 25 GCGGCTGCTG CGGCTGCTGC TCTCCGCTCT CGTCTCTGCG GCGGCTCTGC GTGGAGCCGC 180
 GCGGCTGCTG CGGCTGCTGC TCTCCGCTCT CGTCTCTGCG GCGGCTCTGC GTGGAGCCGC 240
 GGCAAGGTGT CCTCTCTGCT CACATGCTGT TGGGCTCTGC CTTCAGCCCTC TCCAGGAGGA 300
 CCAGCAAGGG CTCTGTGTGC CCAGGATGCG CGGCTCTCCA GCGGGGGGCG GCGCCAGCC 360
 CAGACTGGAA GATGAGATTG ACTTCTGCGC CCAGGAGCTT GCGCGGAAGG AGTCTGGACA 420
 30 ATCAACTCCG CCCCTACCCA AGGACCGACA GCGGCTCCCG GAGCCTGCCA CCTGGGCTT 480
 CTGGGACCGG GCGGAGGGGG TGGAGCTGGG CCTCCCCCTC ACTCCAGGAA CCCCCACGCC 540
 CACGCCCCAC ACCTCCCTGG GCTCCCTCTG GTCATCCGAC CCGGTGACCA TGTGCGCCCT 600
 GGAGCCCCCG GGAGGGCAAG GCGACGGCCT CGCCCTGTGT CTGATCCTGG CGTCTGTGTG 660
 GCGCGGTGCA GCGGCTCTCT CCGTAGCCTC CTCTGTCTGG TGCAGCTGCG AGCGTGAGAT 720
 35 CCGCCTGACT CAGAAGGCCG ACTACGCCAC TGCBAAGGCC CCTGGCTCAC CTGCAGCTCC 780
 CCGGATCTGC CTGCGGGACC AGCGGCTGGC ACAGAGCGCG GAGATGTACC ACTACCAGCA 840
 CCAACGGCAA CAGATGCTGT GCTCTGGAGC GCATAAAGAG CCACCCAGG AGCTGGACAC 900
 GGCTCTCTCG GATGAGGAGA ATGAGGACGG AGACTTCAG GTGTACGAGT GCGCGGCGCT 960
 40 GGCCCGGACC GGGGAAATGG AGGTGCGCAA CCTCTGTTC GACCACGCGC CACTGTCCGC 1020
 GCGCCTGCGC GCGCCAGCT CACCGCTGCG ACTGCCATGA CTTGGAGGCA GACAGACGCC 1080
 CACTGTCTCC CCGACTCTGA GCGCCCGGGG GAGGGGCGAG GCCTGGAGCT TCCCACTAAA 1140
 AACATGTTT GATGCTGTGT GCTTTTGGCT GGGCCTCGGG CTCCAGGGCC TGGGACCCCT 1200
 TGCCAGGGAG ACCCGCAAC CTTTGTGCGA GGACACCTCC TGGTCCCTCG CACTCTCTCT 1260
 45 GTTCGGTTTA GACCCCAAA CTGGAGGGG CATGGAGAAC CGTAGAGCGC AGGAACGGGT 1320
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Seq ID NO: C212 DNA Sequence
 Nucleic Acid Accession #: NM_004445.1
 Coding sequence: 799..3819

50 1 11 21 31 41 51
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 CGGAGGGGGG GGGCGGGGCT GCGTTCGCTC CAGCGCGGCG TCTACAGCAG CGGGCGGCGG 60
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 55 GCGCCACCTC TGGAGCAGCC CCGTCCGCGA GCGTCAGGTC CACCCCGGAA TCCAGGGAC 180
 TCTCCGCGCC GAAACGACCC GGGCGGGTGC AACGGGTTCC CCGGACTGGA GAAGACGCGG 240
 GTGGCACCCT GCGAGCTCCA GAGGCCCGGG GTCCACTGCG AGGCTCGGG GGGCGCAGAC 300
 CTGACAGAGC TCGGGCCAAC TGGGAAGAAAT AAAGGGATTA TAGTCCACCC AATTCAAGA 360
 60 CTCTGAGAGC TCAGACACGA GGAGAGATAG AGAACCGCCA ATCTCTAGAT CAACAAGCAA 420
 AGGAGGTGCC AAGCTCTGTT GTCTTCATTG TGACACTGGA GTCTAGATGC TGGGAAGTCC 480
 AAGATCAGGG TGCCGCGCATG GTCAAGTTCT GCGGAAGCCT CTCTTCTAGG TTTCAAGCTG 540
 CCTCTCTCTT TGTGTGTCTC TCGAATGSCA GAAAGAGGGG TGGCTGTGAG AGGAAGGGAG 600
 GAGAGTAAAT GAAGAGAAAG AACTGGAATA ACCCTTGA CAACCAAGGAA AAAAGGGAG 660
 65 CTAGCTGTA CACCTGAGT CTGCAAAAG CTGCAGCCCC ACCCAGGAGC AGGGTGGTGG 720
 CTGGGGCGAT GGTGGACGCC CTGAAGATGT CCCATGGCTA CTGAAGGGGC TGCCAGTTA 780
 GGGAACAGAG TGGCGGGCAT GGTGTGTAGC CTATGGGTGC TGCTCTTGGT GTCTTCAGTT 840
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 ACCTACCCAC CAGGGGGGTG GACAGAGGTG AGTGTCTCG ACGACCAAGC ACGCCTGACT 960
 70 CGGACCTTTG AGGATGTGTA TGTGGCAGGG GCGCCTCCAG GCACCGGGCA GGACAAATGG 1020
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 TCTGTGCGGG CATGCTCCAG CCTGGGTGTG AGCGGCGGCA CCTGCGGGGA GACCTTCACC 1140
 CTTTACTACC GTCAAGCTGA GAGGCCGAC AGCCCTGACA GCGTTTCTCT CTGGCACCTC 1200
 AAACGCTGGA CCAAGGTGGA CACAATTGCA GCAGACGAGA GCTTTCCCTC CTCTCTCTCC 1260
 75 TCTCTCTCTT CTTCTCTCTC TGCAGCGTGG GCTGTGGGAC CCCACGGGGC TGGGCGAGCG 1320
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 TAGGTGGCCT TCCAGGACAC GGGGGCCTGC CTGGCCCTGG TCGCTGTGAC GCTCTTCTCC 1440
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 GCTGGGGGGG CCTCCCTGGT GGCAGCTGTG GGCACCTGTG TGGCTCATCG AGAGCCAGAG 1560
 80 GAGGATGAGG TAGGGGGCCA GGCAGGAGGC AGCCCCCACA GGCTGCACTG CAACGGGGAG 1620
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 GGAGACAAGG CCTGCCAAGC CTGCCACGG GGGCTCTATA AGTCTTCTCG TGGGAATGCT 1740
 CCTGTCTCAC CATGCCCTGC CCGCAGTCAC GCTCCCAACC CAGCAGCCCC CGTTTGCCCC 1800
 TGCTGAGAGG GCTTCTACCG GCGCAGTTCC GACCCACAG AGGCCCCCTG CACTGGTCTC 1860
 CCATCGGCTC CCCAGGAGCT TTGGTTTGAG GTGCAAGGCT CAGCACTCAT GCTACACTGG 1920

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CGCCTGCCTC GGGAGCTGGG GGGTCGAGGG GACCTGCTCT TCAATGTCGT GTGCAAGGAG 1980
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GAGGTCCACT TCGACCTCTG CCAGAGAGGC CTGACTGAGA GCCGAGTGT AGTGGGGGGA 2100
CTCCGGGACAC AGCTACCTTA CATCTTAGAG GTGCAGGCTG TTAATGGGGT GTCTGAGCTC 2160
AGCCCTGACC CTCTCAAGG TCAGCCATC AATGTGAGCA CCAGCCATGA AGTCCCTCT 2220
GCTGTCCCTG TGGTGCACCA GGTGAGCCGG GCATCCAACA GCATCAGCGT GTCCTGGCGG 2280
CAGCCCGACC AGACCAATGG GAACATCCTG GACTATCAGC TCCGCTACTA TGACCCAGCA 2340
GAAGACGAAT CCCACTCTTT CACCCTGACC AGCGAGACCA ACATGCCAC CGTGACACAG 2400
CTGAGCCCTG GCCACATCTA TGGTTTCCAG GTGCGGGCCC GGACTGCTGC CGGCCACGGC 2460
CCCTACGGGG GCAAGTCTA TTCCAGACA CTTCTCAAG GGGAGCTGTC TTCCAGCTT 2520
CCGAAAGAC TCTCTTGGT GATCGGCTCC ATCCTGGGGG CTTTGGCCTT CCTCTGCTG 2580
GCAGCCATCA CCGTGTCTGG GGTGCTCTTC CAGCGGAAGC GGCCTGGGAC TGGCTACAGC 2640
GAGCAGCTGC AGCAATACAG CAGCCCAAGG CTCGGGTGA AGTATTACAT CGACCCCTCC 2700
ACCTAGCAGG ACCCTGTGCA GGCCATCCGA GAACTTGCCC GGGAAAGTGA TCCTGCTTAT 2760
ATCAGATTG AGGAGGTCTT TGGGACAGG TCTTTTGGAG AAGTGCGCCA GGGCCGCTG 2820
CAGCCACGGG GACGAGGGA GCAGACTGTG GCCATCCAGG CCTGTGTGGC CGGGGGCGCC 2880
GAAAGCCTGC AGATGACCTT CTTGGGCGGG GCCGAGTGC TGGGTGAGT CCAGCACCCC 2940
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TTCATGGAGC TTGGCCCCCT GGACAGCTTC CTCAGGCAGC GGGAGGGCCA GTTCAGCAGC 3060
CTGCAGCTGG TGGCCATGCA GCGGGGAGTG GCTGCTGCCA TGCAGTACCT GTCCAGCTTT 3120
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TACTAAATG CAATAGAGCA GGAGTTCCGG CTGCCCGCG CTCCAGGCTG TCCTCTGGA 3420
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CAGCTGGTGG CTGCATTTGA CAAGATGATC CGCAAGCCAG ATACCTCTGA GGCTGGCGGG 3540
GAOCCAGGGG AAGGGCCCTT CTGACCCCTG TGGCCCTGGA CTTTCTTGT 3600
CTGGACTCAC CCCAGGCTTG GCTTTACGCC ATTGGAGTGG AGTGCTACCA GGACAACTTC 3660
TCCAAGTTTG GCTCTGTAC CTTCACTGAT GTGGCTCAGC TCAGCCTAGA AGACCTGCCT 3720
GCCCTGGGCA TCACCTTGGC TGGCCACCAG AAGAAGCTGC TGCACCATAT CCAGCTCCTT 3780
CAGCAACACC TGAGGCAGCA GGGCTCAGTG GAGGTCTGAG AATGACGATA CCGTGTACTC 3840
AGCCCTGGAC ACTGGTCCGA GAAGGGACAT GTGGGACGTG AGCCGGGCTC CAACAGCCTC 3900
TGTGAGAGAT GCCCACACC AAACCCAAAC CTCGCGATGG CTGCATTCCC TGGTCTCCG 3960
CCTCTCCACC AGCCCCCTCC TCATTAAAGG GAAAGAAGGG AATTGTCAAA 4010

Seq ID NO: C213 DNA Sequence
Nucleic Acid Accession #: XM_043340.4
Coding sequence: 195..1067

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TGGCAGCGGG CTCGGACCCA CGCGGCGCGG CGGCCCGCCT GGCTGCGAGC GCTCCACACC 180
CGGCGGCGGG CAGCATGCCC TTGACTTCA GGAGGTTTGA CATCTACAGG AAGGTGCCCA 240
AGGACCTTAC GCAGCCAAAG TACACCGGGG CCATTATCTC CATCTGCTGC TGCTCTTCA 300
TCCTCTTCTT CTCTCTCTCG GAGCTCACCG GATTTATAAC GACAGAAGTT GTGAACGAGC 360
TCTATGTGCA TGACCCAGAC AAGGACAGCG GTGGCAAGAT CGACGTGAGT CTGAACATCA 420
GTTTACCCAA TCTGCACTGC GAGTTGGTTG GGCTTGACAT TCAGGATGAG ATGGGCAGGC 480
ACGAAGTGGG CCACATGAGC AACTCCATGA AGATCCCCTG GAACAATGGG GCAGGCTGCC 540
GCTTCGAGGG GCAGTTCAGC ATCAACAAGG TCCCAGGCAA CTTCCACGTC TCACACACCA 600
GTGCCACAGC CCAGCCACAG AACCCAGACA TGACGCATGT CATCCACAAG CTCTCCTTTG 660
GGGACAGCCT ACAGGTCCAG AACATCCAGC GAGCTTTCAA TGCTCTCGGG GGAGCAGACA 720
GACTCACCTC CAACCCCTG GCTTCCCAG ACTACATCCT GAAGATTGTG CCCACGGTTT 780
ATGAGGACAA GAGTGGCAAG CAGCGGTACT CTTACAGTA CAGGGTGGCC AACAGGAAT 840
ACGTGCGCTA CAGCCACAGC GGGCGCATCA TCCTGCAAT CTGGTTCCGC TACGACCTCA 900
GCCCATCAC GGTCAAGTAC ACAGAGAGAC GGCAGCGGCT GTACAGATTG ATCACCACGA 960
TCTGTGCCAT CATTGGCGGG ACCTTCAAGC TCGCGGCAT CCTGGACTCA TGCACTTTCA 1020
CAGCCTCTGA GGCCTGGAAG AAGATCCAGC TGGGCAAGAT GCATTGACGC CACACCCAGC 1080
CTAATGGCGG AGGACCTTGG GCATCGCCAG CTTGCTCTCC AGTGCCCTGT CTCCTTTGGC 1140
CCTCAATCTG GTCCCAATAT TGGCTGTGTC CCAAGGGTGG TGTGGGAAGT GGGGGGAAAG 1200
TAGAGGATGG CTGATGTTT TGCACTTACC TCTTTTCCCC GTGTTTCTTT TTAGACAAAT 1260
TACACTGCTT GAAGTTGAGC TTCCCTTTTC CTTGGGGAGC CCAAGAAACA GAGTCAGGCA 1320
AGGGGTGGGG AGTCCAGGGG AACATCCAG AATGCATATC GATCAGCTCT CAGCCAGGCT 1380
TGACAAATCT CGCAGCCCCC ACTAGGTGGA CACATTAAAT ATTTGGTTTC TCCCTTGGGC 1440
AGCCAAACCTG CCCCAGAGGC ACCAGACCTG GGCTTTCAGC TTTGGGACCA GGCTGCCCAA 1500
AGGTACTCCT TTATACACCC GGCACCTTCC ACGAAAGATG GTACTTCCCA AGCAAGCCCC 1560
TATGATTGTT CACTATAGAT GGAATGTGT GGCATGCACA TGAGTTGAAA TTCCTTTATG 1620
CATTTTTTTG AAAAAAACA AAAAAACAAC TCTGAGGACA TAGGGGATGT CAGTTTCTTA 1680
TGAAGAGAC ACCTCTGACC CGTTATTCTT ATAATCAAAA TCTGAAGGGA AAAAAATGTT 1740
TTAGTTCTTT CCCCCTCGT TGGGTTCAAC TAGATTAAAA GGCTGATTTT CAG 1793

Seq ID NO: C214 DNA Sequence
Nucleic Acid Accession #: NM_002151.1
Coding sequence: 246..1499

80

1 11 21 31 41 51
TGAGCCCGC TTTCAGGGA CCTACCTGA GGGCCACAG GTGAGGCAG CTGGCCTAGC 60
AGGCCCCAGC CCACCGCCTC TGCTTCCAGG CCGCCGCGTG CTGGGGGGCC ACCATGCTCC 120
TGCCAGGCGC TGGAGACTGA CCCGACCCCG GCACTACCTC GAGGCTCCGC CCCCACCTGC 180
TGGACCCGAG GGTCCACCC TGGCCAGGA GGTGAGCCAG GGAATCATTA ACAAGAGGCA 240
GTGACATGGC GCAGAAGGAG GGTGGCCGGA CTGTGCCATG CTGCTCCAGA CCAAGGTGG 300

	CAGCTCTCAC	TGCGGGGACC	CTGCTACTTC	TGACAGCCAT	CGGGGCGGCA	TCCTGGGCCA	360
	TTGTGGCTGT	TCTCCTCAGG	AGTGACCAGG	AGCCGCTGTA	CCCACTGCAG	GTCACTCTCG	420
	CGGACGCTCG	GCTCATGGTC	TTTGACAAGA	CGGAAGGGAC	GTGGCGGCTG	CTGTGCTCCT	480
5	CGCGCTCCAA	CGCCAGGGTA	GCCGGACTCA	GCTGCGAGGA	GATGGGCTTC	CTCAGGGCAC	540
	TGACCCACTC	CGAGCTGGAC	GTGCGAACGG	CGGCGGCCAA	TGGCACGTCG	GGCTTCTTCT	600
	GTGTGGACGA	GGGGAGGCTG	CCCCACACCC	AGAGGCTGCT	GGAGGTCATC	TCCGTGTGTG	660
	ATTGCCCCAG	AGGCGGTTTC	TTGGCCGCCA	TCTGCCAAGA	CTGTGGCCCG	AGGAAGCTGC	720
	CCGTGGACCG	CATCGTGGGA	GGCCGGGACA	CCAGCTTGGG	CCGGTGGCCG	TGGCAAGTCA	780
10	GCCTTCGCTA	TGATGGAGCA	CACCTCTGTG	GGGGATCCCT	GCTCTCCGGG	GACTGGGTGC	840
	TGACACGCCG	CCACTGCTTC	CCGGAGCGGA	ACCGGGTCCT	GTCCCGATGG	CGAGTGTTTG	900
	CCGGTGCCGT	GGCCAGGCC	TCTCCCCACG	GTCTGCAGCT	GGGGGTGCAG	GCTGTGTGTT	960
	ACCACGGGGG	CTATCTTCCC	TTTCGGGACC	CCAACAGCGA	GGAGAACAGC	AACGATATTG	1020
	CCCTGGTCCA	CCTCTCCAGT	CCCCTGCCCC	TCACAGAATA	CATCCAGCCT	GTGTGCCCTC	1080
	CAGCTGCCGG	CCAGGGCCCTG	GTGGATGGCA	AGATCTGTAC	CGTGACGGGC	TGGGGCAACA	1140
15	CGCAGTACA	TGGCCAAACG	GCCGGGGTAC	TCCAGGAGGC	TCCAGTCCCC	ATAATCAGCA	1200
	ATGATGTCTG	CAATGGCGCT	GACTTCTATG	GAACCCAGAT	CAAGCCCAAG	ATGTTCTGTG	1260
	CTGGCTACCC	CGAGGGTGGC	ATTGATGCCCT	GCCAGGGCGA	CAGCGGTGGT	CCCTTTGTGT	1320
	GTGAGGACAG	CATCTCTCGG	ACGCCACGTT	GGCGGCTGTG	TGGCATTGTG	AGTTGGGGCA	1380
20	CTGGCTGTGC	CCTGGCCAG	AAGCCAGGCG	TCTACACCAA	AGTCAGTGAC	TTCCGGGAGT	1440
	GGATCTTCCA	GCCCTAAAG	ACTCACTCCG	AAGCCAGCGG	CATGGTGACC	CAGCTCTGAG	1500
	CGGTGGCTTC	TGCGTGGCA	GCCTCCAGGG	CCCGAGGTGA	TCCCGGTGGT	GGGATCCACG	1560
	CTGGGCCGAG	GATGGGACGT	TTTTCTTCTT	GGGCCCGGTC	CACAGGTCCA	AGGACACCCT	1620
	CCCTCCAGGG	TCTTCTCTTC	CACAGTGGCG	GGCCCACTCA	GCCCCGAGAC	CACCCAACTC	1680
25	CACCTCCCTG	ACCCCTCATG	AAATATTGTT	CTGCTGTCTG	GGACTCTCTG	CTAGGTGCCC	1740
	CTGATGATCG	GATGCTCTTT	AAATAATAAA	GATGGTTTGG	ATT		1783

Seq ID NO: C215 DNA Sequence

Nucleic Acid Accession #: AB037745.1

Coding sequence: 26..1744

30	1	11	21	31	41	51	
	ATGTTGGAAC	ACGCTGCCCA	CAAACATGGA	AACGACCGTT	CTCAGTGGGA	TCAACTCGA	60
	GTACAGGGC	ATGACAGGCT	GGGAGGTGGC	TGTTGATCAC	ATTTACACAG	CTGCTGGAGC	120
35	CTCAGACAA	GACTTCAATG	TTCTCACTCT	GGTTGTGCCA	GGATTAGAC	CTCCGAGTTC	180
	GGTGATGGCA	GACACAGAGA	ATAAAGAGGT	GGCCAGAAATC	ACATTTGTCT	TTGAGACCCT	240
	CTGTTCTGTG	AATCTGTGAG	TCTACTTCAT	GGTGGGTGTG	AATTTCTAGGA	CCAACTCTCC	300
	TGTGGAGAGG	TAGGAAGGTT	CCAAAGGCAA	ACAGTCTCTAT	ACCTACATCA	TTGAGGAGAA	360
40	CACATACCA	AGCTTCACTC	GGGCTTCCCA	GAGGACCACT	TTTCATGAGG	CAAGCAGGAA	420
	GTACACCAAT	GACGTTGCCA	AGATCTACTC	CATCAATGTC	ACCAATGTTA	TGAATGGCGT	480
	GGCCTCTAC	TGCCGTCCCT	GTGCCCTAGA	AGCCTCTGAT	GTGGGCTCCT	CCTGCACCTC	540
	TTGTCTGCT	GGTTACTATA	TTGACCGAGA	TTGAGGAACC	TGCCACTCCT	GCCCCCTTAA	600
	CACAACTCTG	AAAGCCCACT	AGCCTTATGG	TGTCAGGCCC	TGTTGTGCCCT	GTGGTCCAGG	660
45	GACCAAGAAC	AACAGATCC	ACTCTCTGTG	CTACAATGAT	TGCACCTTCT	CACGCAACAC	720
	TCCAACCAAG	ACTTTCAACT	ACAACCTCTC	CGCTTTGGCA	AACACCGTCA	CTCTTGCTGG	780
	AGGGCCCAAG	TTCACTTCCA	AAGGTTGAA	ATACTTCCAT	CACITTTACCC	TCAGTCTCTG	840
	TGAAAACCA	GGTAGGAAA	TGTCGTGTG	CACCGACAAT	GTCACTGACC	TCCGATTTC	900
	TGAGGGTGG	TACGGGTTCT	CCAAATCTAT	CACAGCCTAC	GTCTGCCAGG	CAGTCATCAT	960
50	CCCCCAGAG	GTGACAGGCT	ACAAGGCCGG	GGTTTCTCTA	CAGCCTGTCA	GCCTTGCTGA	1020
	TGAGCTTATT	GGGCTGACAA	CAGATATGAC	TCTGGATGGA	ATCACTTCCC	CAGCTGAATC	1080
	TTTCCACCTG	GAGTCCCTGG	GAATACCGGA	CGTGATCTTC	TTTTATAGST	CCAATGATGT	1140
	GACCCAGTCC	TGCAGTCTCT	GGAGATCAAC	CACCATCCGC	GTCAAGTGCA	GTCCACAGAA	1200
	AACCTTGACC	GGAGGTTTGC	TGCTGCCAGG	AACGTGCTCA	GATGGGACCT	GTGATGGCTG	1260
55	CAACTTCCAC	TTCTGTGGG	AGAGCGCGGC	TGCTTGCCCG	CTCTGCTCAG	TGGCTGACTA	1320
	CCATGCTATC	GTCCAGAGCT	GTGTGGCTGG	GATCCAGAAG	ACTACTTACG	TGTGGCGAGA	1380
	ACCCAGGCTA	TGCTCTGGTG	GCAITTTCTC	GCCTGAGCAG	AGAGTCACCA	TCTGCAAAAC	1440
	CATAGATTTC	TGGCTGAAAG	TGGGCATCTC	TGCAGGCACC	TGTACTGCCA	TCCTGCTCAC	1500
	CGTCTTGACC	TGCTACTTTT	GGAAAAAGAA	TCAAAAATA	GAGTACAAGT	ACTCCAAGCT	1560
60	GGTGATGAAT	GCTACTCTCA	AGGACTGTGA	CCTGCCAGCA	GCTGACAGCT	GCGCCATCAT	1620
	GGAAGGGGAG	GATGTAGAGG	ACGACCTCAT	CTTTACCAGC	AAGAAGTCAC	TCTTTGGGAA	1680
	GATCAATCA	TTTACTTCCA	AGCAGCCAGC	TCTGTCAACC	ATCTCTCTTT	CAGAGGACTC	1740
	CTGATGGAAT	TGACTCAATG	CCGCTGAAGA	CATCTCAGG	AGGCCCCAGAC	ATGGACCTGT	1800
	GAGAGGCCACT	GCCTGCCCTCA	CCTGCCCTCCT	CACCTTGCTAT	AGCACCTTGG	CAAGCCTGCG	1860
65	CGCATTTGGG	TGCCAGCATC	CTGCAACACC	CACCTGCTGA	AATCTCTTCA	TTGTGGCCTT	1920
	ATCAGATGTT	TGAATTTTCA	ATCTTTTCTT	ATAGAGTACC	CAAAACCTCC	TTTCTGCTTG	1980
	CCTCAACCT	GCCAAATATA	CCCACTTTT	GTTTGTAAAT	TATGCCCTTG	CTGTATCTTT	2040
	GTTTCCCAAA	ATGGCCCATC	CGCCAGAGCC	ATAGCTTCGT	CTGCTCATAA	TTCTTATAGC	2100
	TTTGGAATGA	AAATATTTCT	ATCTTCTTAA	GTATAGAAAC	TATTTCTCTT	GTCCCTCAAC	2160
70	TTAAGGGCAG	AAACAGCTGG	GAGTTTTCCT	CGCATGCCCT	CAGCTCATGA	TCTTTCAGG	2220
	AGAGAGGCTG	GGTGAGGAGG	GTGTGGGGGT	TCCCTGGTGG	ATAATCTTCA	TAGCAGCCTG	2280
	GATCCATTTT	CCCTGGATAA	CCAGCTCAAA	GGAGTGAAA	ATGGTAGTCT	GAGGGCAAGG	2340
	GGAGCAAGCT	CTGGGTAAAG	AAAGCCTTGA	AAAGCATAAA	AAGAGGCGGG	GCGCGGTGGC	2400
	TCAGGCTCTG	AATCCAGACA	CTTTGGGAGG	COGAGGCGGG	CAGATCATGA	GGTGGGGAGA	2460
75	TTGAGACCAT	CCTGGCTAAC	ACGGTGAAGC	CCCGTCTCTA	CTGGAATAAC	AAAAAATTAG	2520
	CGGGGCGTGG	TGGCGGGTGC	CTGTGGTCCC	AGCTACTCGG	GAGGCTGAGG	CGGGAGAATA	2580
	GCGTGGGCCT	GGAAGGCGGA	GCTTGCACTG	AGCCGAGATC	GCGCCACTGC	ACTCCATCCA	2640
	GCCTGGGTGA	CAGAGTGAGA	CTCTGCCTCA	AAAAAAAATA	AAAAAAGAA	AAGCAAAAG	2700
	AGAGGCAACA	AGGAATGTTT	TTGTTTGTGA	GACAGGCTCT	CACCTGTCTA	CTAGGCTGG	2760
80	AGTGCACTGG	CGTAATCACT	GTTCACTGCA	GCCTCAAGCT	CTTGGGCTCA	GGCTATCCTC	2820
	CCATCTCAGC	CTCTCAAGTA	GCTGGGACTA	CGAGTGTGCA	CCACAGGCT	CACATAATTT	2880
	TGTGTTTTTT	GTAGACACGG	GGTTTACCGG	TGTTGCCAG	GCTGTCTCTC	AACTCCTGGG	2940
	CTCAAGTGAT	CTGTCCGCCT	CGGCCCTCCA	AACGTGCTGG	ATTACAGGCA	TAAGCCACTG	3000
	CACACGCTCT	TTTATTTGTT	TTTTAAACCA	CGTAGCTCAT	TGCTTCTCT	TAAGTAAATG	3060
	ATAGATATTC	TCACTGAAGC	CAAGGAATA	AGTTCATCAA	GAAATGCC	AAAGCCCTGG	3120

5 TGGATACATC CTCCTATCT TTTTAA CTTTCCACTA TCACTCTATG AACTGAAAA 3180
 GAACCCAGGT AGCCCAAAAC CCAGATGTTT CAGCCTTATC CTCTATTGGG TTTACCCACA 3240
 GACATAGCAA ACCCTGTGAG TGAGGAAAT TCCCCATCTT TGAGTGGCCC CGTCTAGAA 3300
 GTTTGGGCCA TATTATGGAA CAGGGGTCTC TTATTGAAA AGAGCACAAG GAGGCCAAGA 3360
 TTTTAATGGG GCACCTTAGG GGATACAGCC CACAATGGCA TGGGCTGAG GTGGCCGTGA 3420
 TGCTGCTCTC TAAGCTTAAC GCATCTGCTC AGGCACAGAA TAAACGTCTA GGCTGGCCAA 3480
 AAAAGGAAC GAATCCAGG CCCATACGCC AGCACCAGAA TCAACCCAGT CTTCAAGGAA 3540
 GGAAGGCTAG GAGAGTTTAA CAAGATTTC ACTGGGCCCA GCATGGTGGC TCACACCTGT 3600
 10 AATCCCAAGG CAGATGGTG GCTTGAGCTC AGGAGTTCAA GACCAGCCTG GGCAACACAG 3660
 TTGAGACCTG TCTCTAAAAA ATTTAAAAAT AAACAAGGTG TTCACCAAGC TGGGATACCT 3720
 CTCATAATTA AGCCCTATCT TTTCTCTTTT TTTCTCTCTC AATTGCTTGG TGTGATAAAA 3780
 AACTAAAGAG ACTTCTGGTC CAATTCTTGG CAACATCCCT TCTGAAAGGT GAGTAGAGTG 3840
 GGTGTCTTCT ATGCCCAATTT TCCCCAATTT TACACAACT ATTATCAATG AACTTTTAAAG 3900
 15 TACCTAGAAT GGGTAAAAAC AGAGCAAGAC TTTAAATTAC CTCTCTCTTT CTCTACTGAG 3960
 CAGTTCTGCC CAGCTTCTGA TCAGGCTAGG GTGACCTTCC CTGGTCAAG CCGCAATTGC 4020
 CCATGATTGG TGCCGTGGCC CTTTCTCCAG TGACCATTTG GTGACCAGAT GGTAGATATA 4080
 GAAAGGGGAT GGCATTGGCA AGTGACTAGT CTGCCACAAA ATGCTCATCT GATTAGCCAC 4140
 TGCTGGCCCTG CCAATGGCTT TGTAAGAGTC AATGAGAACT AGAGCCAGGC TGTGGTCCCT 4200
 20 GGCCATCAAC AGTGTGGTG ACGGCAGGGA GTCCCTTTGG TTTAATAAAT CCAGTTTCTC 4260
 TTGGGCTGTC CAAATCTTCC CCTCTTTTGG TAGGAGTCTC GCTCTCAGAA CCTGTGTTCA 4320
 TGTGGAACCT TCCCCAGTG TGATGTCAGA TACGAGCTCT CTGAGCTCCA GCCTAAAGTC 4380
 TTTCTGAGCC TCAGCAATAC TTGGGCACCT GCTGTCTCAC TGAATAGCTT TCTTTTGTGA 4440
 CAAAGGCCAC AGACAGCCCT TAGACTATTG CGGAAACAGT AGGAAAAATT ACATATGTCT 4500
 25 TTGACTTCTT TATTCTGACT CCACTGATTG TAGCCATAAT ACTTTAAGGA GCTACTTTT 4560
 ACTACCCCTT ACCTGCTGTA CTCTGAGG TCTGGCTGT GACCTGTGAG GAACTCCTGA 4620
 GTTACGCTAC TGGGTGACCC TGTGCTCTCC CTAGCAAGTT AGGCATGTCA TATATTTT 4680
 ACAGCTTTAT TGAGATATAA TTCACATATT ATACAATTCA CCTTTAAAC ATACGATTCA 4740
 ATGGTTTTTC GCAAACTCAC AGAGTTGTCC GCCACTTGA GAGCAAAAC ATGTTCAATT 4800
 30 TTTCTTTCTT TTTTCTTCTT GAGACAGAGT CAGCTTTGTC GCCCAGGCTG GAGTGCAAGT 4860
 CATAGATCTT CCGTCACTGC AGCCTCCCCA TCCTGGGTTT AAGTGATCTT TCTGCTTCA 4920
 CCTCCCACTG AGCTGGGATT ACAGGATGTC GCCACCAGCC CTAGCTAATT TTTGTGTTT 4980
 TAGTAGAGAT GGGGTTTCC CGTGTTGGCC AGGCTGGTCT CAAACTCTCT GACTCAAGTG 5040
 ATCCACCCAC TCCGCCCTCC CAAAGTGCTG GGAATGAGG TGTGAGCCAC CGTGCCTGGC 5100
 35 CTACGTGTC AATTTCTAT GAACAAAGGC TTTAGTCTT GACCCAGGCG TAAAGTGGTC 5160
 TGTCCCAAGCT GTTGTGGTA GAGGGAGTAT GATAAAATG TTAATCTCA TTTGGTTACC 5220
 TTGAGTCTCT GAACACGAG TAACGTGCTA GCTATAGTCA TCATCTGTAT TTGGCTGGGA 5280
 ATACAAATGA AGATTGTGGT GTATTCAAGC AGTAGGGTTT TTGCTTTTGT TTTTGTTTTA 5340
 GTGCCAACAA AACTTTTTTT TGTCTGACTA CATTAAAGAT AAGACTGACT ATATTTATAC 5400
 40 AACAGAACT TTGTAATAGA TTTTCTCAGC TTTGTGAAAT CGAATTTTTT TTCTCAGGG 5460
 CTGGTGGAGT TTCTTTTTTA CCTGTAAATC CAAGCGTTAA TAGTTTGTGA GAAGATGGGT 5520
 TATTGCATGT CACTTTTTTT TTTTGTGAAA ATAAAAACAT ACCTTAC 5567

Seq ID NO: C216 DNA Sequence

Nucleic Acid Accession #: NM_004864.1

Coding sequence: 26-952

1 11 21 31 41 51
 50 CGGAACGAGG GCAACCTGCA CAGCCATGCC CGGGCAAGAA CTCAGGACGG TGAATGGCTC 60
 TCAGATGCTC CTGGTGTGTC TGGTGTCTCT GTGGCTGCCG CATGGGGGCG CCTGTCTCT 120
 GGCCGAGGCG AGCCGCGCAA GTTCCCGGG ACCCTCAGAG TTGCACTCCG AAGACTCCAG 180
 ATTCGAGAGG TTGCGGAAAC GCTACGAGGA CTGTCAACCC AGGCTGCGGG CCAACAGAG 240
 CTGGGAAGAT TCGAACCCG ACCTCGTCCC GGCCCTGCA GTCCGATAC TCGCGCAGA 300
 55 AGTGGGCTCG GATCCGGGCA GCCACCTGCA CCTGCTATC TCTCGGGCG CCTTCCCGA 360
 GGGGCTCCCG GAGGCTCCCG GCCTTCAAGG GGCTCTGTTT CGGCTGTCCC CGACGGGCTC 420
 AAGGTGCTGG GAGGTGACAC GACCGCTGCG GCGTCAGCTC AGCCTTGCAA GACCCCAAGC 480
 GCCCGCGCTG CACTGCGGAC TGTGCGCGCC GCGCTGCGAG TCGGACCAAC TGCTGGCAGA 540
 ATCTTCGTCC GCAACGCCCC AGCTGGAGTT GCACCTGCGG CCGCAAGCGG CCAGGGGGGG 600
 60 CCGCAGAGCG CTGCGCGGCA ACGGGGACGA CTGTGCGCTC GGGCGCGGGC GTTGTGCGCG 660
 TCTGCACACG GTCGCGCGST CGCTGGAAGA CTTGGGCTGG GCGGATTGGG TGCTGTGCGC 720
 ACGGAGAGTG CAAGTGACCA TGTGCATCGG CGCGTGCCCG AGCCAGTTCC GGGCGGCAAA 780
 CATGCACGCG CAGATCAAGA CGAGCCTGCA CGGCTGAGG CCGACACGAG AGCCAGCGCC 840
 CTGCTGCGTG CCGCGCAGCT ACAATCCCAT GGTGCTCATT CAAAAGACCG ACACCGGGGT 900
 65 GTGCTGCGAG ACCTATGATG ACTTGTAGC CAAAGACTGC CACTGCATAT GAGCAGTCT 960
 GGTCTCTCCA CTGTGCACTT GCGCGGGGGA GCGGACCTCA GTTGTCTGCG CCTGTGGAAT 1020
 GGGCTCAAGG TTCTGAGAC ACCGATTCC TGCCCAACA CTTGTATTTA TATAAGTCTG 1080
 TTATTTATTA TTAATTTATT GGGGTGACCT TCTTGGGGAC TCGGGGGCTG GTCTGATGGA 1140
 70 ACTGTGTATT TATTAAAAAC TCTGTGATA AAAATAAAGC TGTCTGAAC GTTAAAAAAA 1200
 AAAA 1204

Seq ID NO: C432 DNA Sequence

Nucleic Acid Accession #: NM_052858.1

Coding sequence: 54..1259

75 1 11 21 31 41 51
 80 GGCACGAGGT GTTGCCTTCA GGTGCTCTCC GGGGCGGAG ACAGGAACCG GCCATGGAAG 60
 ATCGTCTGGG GGTCTGCGAG CCCCGGGGCC GCGCGAGAGA GCGGGAACCG GGAAGCGGCC 120
 CCCACCCAGA CCAAGGCGCG ACCACGATC GACGCGGGA CCGACCGGGG GACCCGCGCA 180
 GGAAGCGAAG CAGCGACGGG AACCGCGGAA GGAACGGGGA CCGGGACCGG AAGAGAGACC 240
 AGGAGAGGGA CCGGAACCGC GACCGGAACC GGGACCGGGA GAGGGAGAGA GAGAGGGAAA 300
 GAGACCCGGA CCGAGGCCCC GCGCGGACA CACACAGGA CCGCGGCCCT CGCGCAGGTG 360
 AACACGAGAT TTGGGAAAAA CCGCGCCAAA GCGGACGCG GAGACGAGCC CGGGGACTGA 420
 CCTGGGACGC AGCCGCGCCT CCTGGGCGCG GCGCTGCGGA AGCCCGGAG CCGCGCAGC 480

	CGCAGAGGAA	GGGAGACCCC	GGGCGCCGCA	GACCCGAAAG	TGAACCCCTT	TCGGAGAGAT	540
	ATCTGCCCTC	GACCCCCAGG	CCTGGACGAG	AGGAGGTGGA	ATATTACCAG	TCAGAGGCGG	600
	AAGGACTCCT	GGAAATGCCAC	AAATGCAAAAT	ACTTGTGCAC	TGGGAGAGCC	TGCTGCCAAA	660
5	TGCTGGAGGT	TCTCTGAAC	TTGCTGATCC	TGGCCTGCAG	CTCTGTGTCT	TACAGTTCCA	720
	CAGGGGGCTA	CACGGGCATC	ACCAGCTTGG	GGGGCAITTA	CTACTATCAG	TTGGAGGGCT	780
	CTTACAGTGG	CTTTGATGGT	GCTGACGGGG	AGAAGGCCCA	GCAACTGGAT	GTCCAGTTCT	840
	ACCAGCTAAA	GCTGCCCATG	GTCACTGTGG	CAATGGCCTG	TAGTGGAGCC	CTCAGAGCCC	900
	TCTGCTGCCT	CTTGTGTGCC	ATGGGTGTCC	TGCGGGTCCC	GTGGCAITGT	CCACTGTTGC	960
10	TGGTGACCGA	AGGCTTGTG	GACATGTCTA	TCGCGGGGGG	GTACATCCCG	GCCTTGTACT	1020
	TCTACTTCCA	CTACCTCTCT	GCTGCCTATG	GCTCTCCTGT	TGTATAAGAG	AGGCAGGCGC	1080
	TGTACCAAG	CAAAAGGCTAC	AGCGGTTTCG	GCTGCAGTTT	CCACGGAGCA	GATATAGGAG	1140
	CTGGAATCTT	TGCTGCCCTG	GGCATTGTGG	TCTTTGCCCT	GGGGCGGCTG	CTGGCCATAA	1200
	AGGGCTACCG	AAAAGTTAGG	AAGCTAAAAG	AGAAGCCAGC	AGAAATGTTT	GAATTTTAAG	1260
15	GGTTTCTAAA	ACGCTCTGAC	AGATGCAAGT	GGTGGTGAA	GGTAGTCTGA	GCCACTGCCT	1320
	TTCCCAAGAA	TCCCTTGTGG	TGGAAGTTTC	CAATGCTGGA	AAAGCAGCGA	GCCAGCGTTG	1380
	GTGTGGTGGG	CGGAGCTCCC	AGTCGCATGG	AGCGGTGTTT	ATGGATGCAA	CAGACCOCTG	1440
	CTTCTGGAGT	CCTCTGTGAG	TGAGGGACCA	ATCAAAATTA	TTTTTCAAAA	AGCAAAAAAA	1500
	TGGCGGCTCT	CGGCGGCTCA	CACCTGTAAC	CCCAGCACTT	TGGGAGGCTG	AGGTGGGTGG	1560
20	ATCACTTAG	GTACAGGAGT	CGAGACCAGC	TTGGCCAAAC	TGGTGAGCCC	CGTCTCTAC	1620
	TAAAATACAA	AAAAATTAGC	CAGGCGTGGT	GGCGGGCGCC	TGTAATCCCA	GCTACTTGGG	1680
	AGGCTAGGCG	AGGAGAAATCG	CTTGAATCTG	GGAGGCGGAG	ATTGCAAGTA	CGCGAGATCC	1740
	CGCCACTGCA	CTCCAGCCCA	GGTGACAGAG	CGAGACTCCA	TCTCAAAAAA	AAAAAAAAAA	1800

Seq ID NO: C434 DNA Sequence

Nucleic Acid Accession #: Bos sequence

Coding sequence: 261..2861

	1	11	21	31	41	51	
30	GAGCTAGCGC	TCAAGCAGAG	CCCAGCGCGG	TGCTATCGGA	CAGAGCCTGG	CGAGCGCAAG	60
	CGGCGCGGGG	AGCCAGCGGG	GCTGAGCGCG	GCCAGGGTCT	GAACCCAGAT	TTCCAGACT	120
	AGCTACCACT	CGCTTGGCCC	ACGCCCGCGG	AGCTCGCGGC	GCCTGGCGGT	CAGCGACCAG	180
	ACGTCCGGGG	CGCTGCGGCT	CCTGGCCCGC	GAGGCGTGAC	ACTGTCTCGG	CTACAGACCC	240
35	AGAGGGAGCA	CACTGCCAGG	ATGGGAGCTG	CTGGGAGGCA	GGACTTCCTC	TTCAAGGCCA	300
	TGCTGACCAT	CAGCTGGCTC	ACTCTGACCT	GCTTCCCTGG	GGCCACATCC	ACAGTGGCTG	360
	CTGGGTGCCC	TGACAGAGGC	CCTGAGTTGC	AACCCCTGGAA	CCCTGGCCAT	GACCAAGACC	420
	ACCATGTGCA	TATCGGCCAG	GGCAAGACAC	TGCTGTCTAC	CTCTCTGCC	ACGGTCTATT	480
	CCATCCACAT	CTCAGAGGGA	GGCAAGCTGG	TCATTAAAGA	CCACGACGAG	CCGATTGTTT	540
40	TGCGAACCCG	GCACATCCCT	ATTGACAAAG	GAGGAGAGCT	GCATGTGGG	AGTGCCTCT	600
	GCCCTTTCCA	GGGCAATTTT	ACCATCATTT	TGTATGGAAG	GGCTGATGAA	GGTATTACAG	660
	CGGATCTCTA	TGAATGGTCT	AAGTACATTG	GGGTGGTAA	AGGAGGCGCT	CTTGAGTTGC	720
	ATGGACAGAA	AAAGCTCTCC	TGGACATTTT	TGAACAAGAC	CCTTCAACCA	GGTGGCATGG	780
	CAGAAGGAGG	CTATTTTTTT	GAAAGGAGCT	GGGGCCACCG	TGGAGTTATT	GTTCAATGTA	840
45	TGACCCCAAA	ATCAGGCACA	GTCTATCCAT	CTGACCGGTT	TGACACCTAT	AGATCCAAGA	900
	AAGAGAGTGA	ACGTCTGGTC	CAGTATTGGA	ACGCGGTGCC	CGATGGCAGG	ATCCTTTCTG	960
	TTGCACTGAA	TGATGAAGGT	TCTCGAAATC	TGGATGACAT	GGCCAGGAAG	GCGATGACCA	1020
	AATTGGGGAAG	CAAAACACTT	CTGCACCTTG	GATTTAGACA	CCCTTGGAGT	TTTCTAACTG	1080
50	TGAAAGGAAA	TCCATCATCT	TCAGTGGAA	ACCATATTGA	ATATCATGGA	CATGAGGCT	1140
	CTGCTGTCTG	CCGGTATTTT	AAATTGTTCC	AGACAGAGCA	TGGCGAATAT	TTCAATGTTT	1200
	CTTTGTCCAG	TGAGTGGGTT	CAAGACGTGG	AGTGGACGGA	GTGGTTCGAT	CATGATAAAG	1260
	TATCTCAGAC	TAAAGGTGGG	GAGAAAATTT	CAGACCTCTG	GAAAGCTCAC	CCAGGAAAAA	1320
	TATGCAATCG	TCCCAATTGAT	ATACAGGCCA	CTACAATGGA	TGGAGTTAAC	CTCAGCACCG	1380
	AGGTGTCTTA	CAAAAAGGCG	CAGGATTATA	GGTTTGCTTG	CTACGACCGG	GGCAGAGCCT	1440
55	GCCGGAGCTA	CCGTGTACGG	TTCTCTCTGT	GGAAGCCTGT	GAGGCCCAAA	CTCACAGTCA	1500
	CCATTGACAC	CAATGTGAAC	AGCACCAATC	TGAACCTTGA	GGATAATGTA	CAGTCATGGA	1560
	AACTGTGAGA	TACCTTGGTC	ATTGCCAGTA	CTGATTACTC	CATGTACCCAG	GCAGAAGAGT	1620
	TCCAGGTGCT	TCCTGTCAGA	TCCTGCGCCC	CAAACCAAGT	CAAAAGTGGCA	GGGAAACCAA	1680
	TGTACTCTGA	CATCGGGGAG	GAGATAGACG	GCGTGGACAT	GCGGGCGGAG	GTGGGGCTTC	1740
60	TGAGCCGGAA	CATCATAGTG	ATGGGGGAGA	TGGAGGACAA	ATGCTACCCC	TACAGAAACC	1800
	ACATCTGCAA	TTTCTTTGAC	TTGATACCTT	TTGGGGGCCA	CATCAAGTTT	GCTCTGGGAT	1860
	TTAAGCGAGC	ACACTTGGAG	GGCAOAGGAG	TGAAGCATAT	GGGACAGCAG	CTGGTGGGTC	1920
	AGTACCCGAT	TCACTTCCAC	CTGGCCGGTG	ATGTAGACGA	AAGGGGAGGT	TATGACCCAC	1980
	CCACATACAT	CAGGGACCTC	TCCATCCATC	ATACATTCTC	TCGCTGCGTC	ACAGTCCATG	2040
	GCTCCAAATG	CTTGTGTATC	AAGGACGTGG	TGGGCTATAA	CTCTTTGGGC	CACTGCTTCT	2100
65	TCACGGAAGA	TGGGCGGGAG	GAAAGCAACA	CTTTTGACCA	CTGTCTTGSC	CTCCTTGTCA	2160
	AGTCTGGAAC	CCTCTCCCCC	TCGGACCGTG	ACAGCAAGAT	GTGCAAGATG	ATCACAGAGG	2220
	ACTCTTACCC	AGGGTACATC	CCCAAGCCCA	GGCAAGACTG	CAATGTCTGT	TCCACCTTCT	2280
	GGATGGCCAA	TCCCAACAAC	AACCTCATCA	ACTGTGCCCG	TGCAGGATCT	GAGGAAACTG	2340
70	GATTTTGGTT	TATTTTTCAC	CAOCTACCAA	CGGGCCCCCT	CGTGGGAATG	TACTCCCCAG	2400
	GTTATTTCAG	GCACATTCCA	CTGGGAAAAA	TCTATAACAA	CCGAGCACAT	TCCAACCTACC	2460
	GGGCTGECAT	GATCATAGAC	AAOAGGATCA	AAACCAACGA	GGCCTCTGCC	AAGGACAAAG	2520
	GGCGGTTCCT	CTCAATCATC	TCTGCCAGAT	ACAGCCCTCA	CCAGGAAGCC	GACCCGCTGA	2580
	AGCCCGGGGA	GCGGGCCATC	ATCAGACACT	TCAITGCGCTA	CAAGAAACCA	GACCAAGGGG	2640
75	CCTGGCTGCG	CGGCGGGGAT	GTGTGGCTGG	ACAGCTGCCA	TTTCAGAGGG	GAGGCTCAGG	2700
	AAGGCTTCTT	GCTTACAGGA	ATGAAGGCTG	GGGGCATTTT	GCTGGGGGGA	GATGAGGCGA	2760
	CCTCTGGAAT	GGCTCAGGGA	TTTACGCCCT	CCTGCGGCTG	CCTGCTGAAG	CTGGTGACTA	2820
	CGGGGTGCGC	CTTTGTCTAC	GTCTCTCTGG	CCCACTCATG	ATGGAGAAGT	GTGGTCAGAG	2880
	GGGAGCAATG	GGCTTTGCTG	CTTATGAGCA	CAGAGGAATT	CAGTCCCCAG	GCAGCCCTGC	2940
80	CTCTGACTCC	AAGAGGGTGA	AGTCCACAGA	AGTGAGCTCC	TGCCTTAGGG	CCTCATTTGC	3000
	TCTTATCCCA	GGGAACCTGAG	CACAGGGGGC	CTCCAGGAGA	COCTAGATGT	GCTCGTACTC	3060
	CCTCGGCTTG	GGATTTTCAGA	GCTGGAAATA	TAGAAAATAT	CTAGCCCAAA	GCCTTCAATT	3120
	TAAACAGATG	GGAAAGTGAAG	CCCCCAAGAT	GGGAAAGAAC	CACACAGCTA	AGGGAGGGCC	3180
	TGGGAGGCCC	CACCTAGGCC	CTTGCTGCCA	CACCACTATG	CCTCAACAAC	CGGCCCCAGA	3240
	GTGCCAGGCG	ACTCCTGAGG	TAGCTTCTGG	AAATGGGGAC	AAGTCCCCCT	GAAAGAAAGG	3300

5
10
15
20
25

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AAATGACTAG AGTAGAATGA CAGCTAGCAG ATCTCTTCCC TCCTGCTCCC AGCGCACACA 3360
AACCCTGCTT CCCCTTGGTG TTGGCGGTCC CTGTGGCCTT CACTTTGTTC ACTACCTGTC 3420
AGCCAGCCTT GGGTGCACAG TAGCTGCAAC TCCCATTGGT TGCTACCTGG CTCTCTGTCT 3480
TCTGCACTCT TACAGGTGAG GCCCAGCAGA GGGAGTAGGG CTCGCCATGT TTCTGGTGAG 3540
CCAAATTGGC TGATCTTGGG TGCTGGAACA GCTATTGGGT CCACCCCACT CCCTTTGAGC 3600
TGCTGCTTAA TGCCCTGCTC TCTCCCTGGC CCACCTTATA GAGAGCCCAA AGAGCTCCTG 3660
TAAGAGGGAG AACTCTATCT GTGGTTTATA ATCTTGACAG AGGCACACAGA GTCTCCCTGG 3720
GTCTTGTGAT GAATCTACAT TATCCCCCTT CTGCCCCCAA CCACAAACTC TTCTCTTCAA 3780
AGAGGGCCTG CCGGCTCTCC TCCACCCAAC TGCACCCATG AGACTCGGTC CAAGAGTCCA 3840
TTCCCCAGGT GGGAGCCAAC TGTCAGGGAG GTCTTTCCCA CCAACATCTT TTCAGCTGCT 3900
GGGAGGTGAC CATAGGGCTC TGCTTTTAAA GATATGGCTG CTTCAAAGGC CAGAGTCACA 3960
GGAAGGACTT CTTCAGGGA GATTAGTGGT GATGGAGAGG AGAGTTAAAA TGACCTCATG 4020
TCCTTCTGT CCACGGTTTT GTTGAGTTT CACTCTTCTA ATGCAAGGGT CTCACACTGT 4080
GAACCACTTA GGATGTGATC ACTTTCAGGT GGCCAGGAAT GTTGAATGTC TTGGCTCAG 4140
TTCATTTAAA AAAGATATCT ATTTGAAAGT TCTCAGAGT TACATATGT TTCACAGTAC 4200
AGGATCTGTA CATAAAGATT TCTTCTCTAA ACCATTCAAC AAGAGCCAAT ATCTAGGCAT 4260
TTTCTTGGTA GCACAAATTT TCTTATTGCT TAGAAAAATG TCCTCTTGT TATTTCTGTT 4320
TGTAAGCACT AAGTGAAGTA GGTCTTTAAG GAAAGCAACG CCCTCTGAA ATGCTTGCT 4380
TTTTTCTGT GCCGAAATAG CTGTCCTTT TCGGGAGTT AGATGTATAG AGTGTGTA 4440
TGTAACACTT TCTGTAGGC ATCACCATGA ACAGAGATAT ATTTTCTATT TATTTATTAT 4500
ATGTGCACTT CAAGAAGTCA CTGTCAGAGA AATAAAGAAAT TGTCTTAAAT GTCATGATTG 4560
GAGATGTCCT TTGCATTGCT TGAAGGGGT GTACCTAGAG CCAAGGAAAT TGGCTCTGCT 4620
TTGGAATAAT TTGCTGTGTA TTATAGTAAA CATACAAAGG ATGTCAAAAA AAAAAAATAA 4680
AAAAAATAA AAAAAAATAA AA 4702

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Seq ID NO: C217 Protein Sequence
Protein Accession #: NP_005805.1

30
35

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1 11 21 31 41 51
| | | | |
MVGKMPFLV TLCAVRVTVD AISVETPQDV LRASQGKSVT LPCTYHTSTS SREGLIQWDK 60
LLLTHTERVV IWPFSNKNYI HGELYKNRVS ISNNAEQSDA SITIDQLTMA DNGTYECSVS 120
LMSDLEGNTK SRVRLVLVLP PSKPECGLEG ETIIGNNIQL TCQSKESGPT PQYSWKRYNI 180
LNQEQPLAQP ASGQPVSLKN ISTDTSGYII CTSSNBEQT FCNITVAVRS PSMNVALYVG 240
IAVGVAALI IIGIIYCCG CRGKDDNTED KEDARPNREA YEEPPEQLRE LSREREEDD 300
YRQEQRSTG RESPDHLDQ 319

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Seq ID NO: C218 Protein Sequence
Protein Accession #: Eos sequence

40
45
50
55
60

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1 11 21 31 41 51
| | | | |
MGSRTPEPSP HAVQLRWGPR RRPPLLPLLL LLLPPPPRVG GFNLDAEAPA VLSGPPGSGFF 60
GFSVEFYRPG TDGVSILVGA PKANTSQPGV LQGGAVYLCF WGASPTQCTP IEFDSKGSRL 120
LESSLSSESSE EEPVEYKSLQ WPGATVRAHG SSILACAPLY SWRTEKEPLS DFGVTCYLS 180
DNPTRILEYA PCRSDFSWAA GQGYCQGGFS ABFTKTGRVV LGSPGSYFWQ GQILSATQEQ 240
IAESYYPEYL INLVQGLQOT RQASSIYDDS YLGYSVAVGE FSGDDTDEFV AGVPRGNLT 300
GYVTILNGSD IRSLYNPSGE QMASYFGYAV AATDVNGDGL DDLVGAAPLL MDRTPDGRPQ 360
EVGRVYVVLQ HPAGIEPTFT LTLTGHEDEFG RFGSSLTPLG DLDQDGYNDV AIGAPFGGET 420
QQGVVVFVPG GPGLGSKPS QVLQPLMAAS HTPDPFGSAL RGRDLGNG YPDLIVGSPG 480
VDKAVVYRGR PIVSASASLT IFPAMFNPBE RSCSLEGNPV ACINLSFCLN ASGKHVADSI 540
GFTVBLQDHW QKQGGVRRR LPLASRQATL TQTLILQNGA REDCREMKIY LRNESEFRDK 600
LSPHIALNF SLDPAQAPDS HGLRPAHYQ SKSRIEDKAQ ILLDCGEDNI CVPDLQLEVF 660
GBQNHVYLG D KALNLTFAH QNVGEGGAYE ABLRVTAPE AEYSGLVHRP GNFSSLSCDY 720
FAVNQSRLLV COLGNPMKAG ASLWGLRFT VPHLRDTKKT IQPDFQILSK NLNNSQSDVV 780
SFRLSVEAQA QVTILGVSKP EAVLFPVSDW HPRDQPKKEE DLGPAVHHVY ELINQGPSSI 840
SQGVLELSCP QALEGQQLLY VTRVTGLNCT TNHPINPKGL ELDPEGSLHH QOKREAPSR 900
SASSGPQLLK CPBACFRLR CELGPLHQE SSQLQHFV WAKTFLQREH QPFSLQCEAV 960
YKALMYPYRI LPRQLPKER QVATAVQWK AEGSYGVPLW IILAILFLG LLLGLLYYL 1020
YKLGFPFKRSL PYGTAMEKAQ LKPPATSDA 1049

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Seq ID NO: C219 Protein Sequence
Protein Accession #: NP_002412.1

65
70
75

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1 11 21 31 41 51
| | | | |
MHSFPPLLLL LFWGVVSHSF PATLETQEQD VDLVQKYLEK YYNLKNDGRQ VEKRRNSGPV 60
VEKLKQMQEF FGLKVTGKPD AETLKVMKQP RCGVPDVAQF VLTEGNPRWE QTHLYRIEN 120
YTPDLERADV DHAIEKAFQL WSNVTPLTFT KVSQGQADIM ISFVRGDHRD NSPFDGPGGN 180
LAHAFQPGPG IGGDAHFDED ERWTNNFREY NLHRVAHAEL GHSGLGSHST DIGALMYP 240
TFSGDVQLAQ DDIDGIQAIY GRSQNFVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR 300
PYMRTNPFYP EVELNFIQVF WQLPLNGLEA AYEFAADRDEV RFPKGNKYNA VQGNQVLHGY 360
PKDIYSSPFG PRTVKHIDAA LSEENTGKTY FVANKYWRY DEYKRSMDPG YPKMIAHDFP 420
GIGHKVDVAF MKDGFYFFH GTRQYKFDPK TKRILTLQKA NSWFNCRKN 469

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Seq ID NO: C220 Protein Sequence
Protein Accession #: Eos sequence

80

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1 11 21 31 41 51
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MHSFPPLLLL LFWGVVSHSF PATLETQEQD VDLVQKYLEK YYNLKNDGRQ VEKRRNSGPV 60
VEKLKQMQEF FGLKVTGKPD AETLKVMKQP RCGVPDVAQF VLTEGNPRWE QTHLYRIEN 120
YTPDLERADV DHAIEKAFQL WSNVTPLTFT KVSQGQADIM ISFVRGDHRD NSPFDGPGGN 180
LAHAFQPGPG IGGDAHFDED ERWTNNFREY NLHRVAHAEL GHSGLGSHST DIGALMYP 240

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TFSGDVQLAQ DDIDGIIQAIY GRSQNPVQPI GPQTPKACDS KLTFDIAITTI RGEVMFFKDR 300
 FYMRTNPFYP EVELNFISVF WPQLPNGLEA AYEPADRDEV RFFKGNKYWA VQGGNVLHGY 360
 PKDIYSSFGP PRTVKHIDAA LSEENTGKTY FFFVANKYWRV DEYKRSMDPG YPKMIAHDFP 420
 GIGHKVDAVF MDGFFFFFFH GTRQYKFDPK TKRILTQLQA NSWFNCRKN 469

Seq ID NO: C221 Protein Sequence
 Protein Accession #: NP_055146.1

1 11 21 31 41 51
 MVRKPVVSTI SKGGYLQGNV NGRPLSLGNK EPPGQEKVQL KRKVTLLRGV SIIIGTIIGA 60
 GIFISPKGVL QNTGVSVMGL TIWTVCGVLS LFGALSYAEL GTTIKSGGH YTYILEVFGP 120
 LPAFVRVWVE LLTIIRPAATA VISLAFGRYI LEPPFIQCEI PELAIKLITA VGITVVMVLN 180
 SMSVWSARI QIFLTFCCKLT AILIIIVPGV MQLIKGQTQN PKDAFSGRDS SITRLPLAFY 240
 YGMAYAGWF YLNFVTEVEE NPEKTIPLAI CISMATTIGV YVLTVNAVPT TINAELLLS 300
 NAVAVTFSEI LLGNFSLAVP IFVALSCFGS MNGGVFAVSR LFYVASREGH LPEILSMIHV 360
 RKHTPLPAVI VLHPLTMMML FSGDLDSLNL FLSPARWLFI GLAVAGLIYL RYKCPDMHRP 420
 FKVPLFIPAL FSFTCLFMVA LSLYSDFPST GIGFVITLTG VPAYYLFIIW DKKPRWFRIM 480
 SEKITRTLQI ILEVPEEDK L 501

Seq ID NO: C222 Protein Sequence
 Protein Accession #: NP_003237.1

1 11 21 31 41 51
 MGLAWGLGLV FLMHVCGTNR IPESGGDNSV FDIFELTGAA RKGSGRRLVK GPDPSSPAFR 60
 IEDANLIPPV PDDKQDLVD AVRAEKGLL LASLRQMKKT RTGLLALERK DHSQVFSV 120
 SNGKAGTLDL SLTVQKQHV VSVEEALLAT GQWKSITLFV QEDRAQLYID CEKMEAEALD 180
 VPIQSVFTRD LASIARLRIA KGGVNDNFQV VLQNVREVFQ TTPEDILRNK GCSSSTSLL 240
 TLNNVWNGS SPAIRNTYIG HKTDLQAIC GISCELSM VLSLRGLRTI VTTLDQSIRK 300
 TTEENKELAN ELRRPPLCYH NGVQYRNNEE WTVDSCTECH CQNSVTICK VSCPIMP 360
 ATVPDGECCP RCWPSDSADD GWSFWSEWTS CSTSCNGIQ QRGRSCDNLN NRCEGSSVQT 420
 RTCHIQECDK RFKQDGGWSH WSPWSSCSVT CGDGVITRIR LCNSPSPQMN GKPCGEARE 480
 TKACKKDACP INGGWGFWSF WDICSVTCCG GVQKRSRLCN NPAPQFGKD CVGDVTENQI 540
 CNKQDCPIDG CLSNPCFAGV KCTSYPDGSW KCGACPPGYS GNGIQCTDVD ECKEVPDACP 600
 NNNGEHCEN TDPGYNCLPC PPRFTGSQPF QGVVEHATAN KQVCKPRNPC TDGTHDCNKN 660
 AKCNLYGHYS DPMYRCECKP GYAGNGIICG EDTDLGWPV ENLVCVANAT YHCKKDNCPN 720
 LPNSGQEDYD KDGIGDACDD DDDNDKIPDD RDNCPFHYNP AQYDYDRDDV GDRCDNCPN 780
 HNPDAQDNTN NGEGDACAAD LDGDLILNER DMCQYVYNVD QRDMDMGVG DQCDNCPLEH 840
 NPDQLSDSDS RIGDTCNNQ DDEDGHQNN LDNCPYVNA NQADHDKDGK GDACDHDNDN 900
 DGIPTDKDNC RLVDNPDQKD SDGDRGDAC KDDFDHDSVP DIDDICPENV DISETDFRRF 960
 QMPLDPLKGT SQNDPNWVVR HQGKELVQTV NCDPLAVGY DEFNAVDVFSG TFFINTERDD 1020
 DYAGFVFGY SSSRFYVVMW KQVTSYWDI NPTRAQGYSG LSVKVNSTT GPGEHLRNAL 1080
 WHTGNTPGQV RTLWHDPRHI GWKDFYAYRW RLSHRPXTGP IRVVMYEGKK IMADSGPIYD 1140
 KTYAGRLGL VFVSQEMVFP SDLYECRDP 1170

Seq ID NO: C223 Protein Sequence
 Protein Accession #: NP_002183.1

1 11 21 31 41 51
 MPLLWLRLGFL LASCWIIIRS SPTPGSEHGS AAPDCPSCAL AALPKDVNS QPEMVEAVKK 60
 HILNMLHLKK RPDVTQFVPR AALLNAIRKL HVGKVGNGY VEIEDDIGRR AEMNELMEQT 120
 SEIITFAESG TARKTLHFEI SKEGSDLSV ERAEVLFLK VPKANRTRK VTIRLFQOK 180
 HPQGSLLDGE EAEVGLKGE RSELLLSEK VDARKSTWHV FVSSSIQRL LDQKSSLDV 240
 RIACEQCES GASVLLGKK KKKKEEGEGK KGGGEGGAG ADEEKEQSHR PFLMLQARQS 300
 EDHPHRRRRR GLECDGKVN CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECPSHIAG 360
 TSGSLSFHS TVINHYMRG HSPFANLKSC CVPTKLRFMS MLYYDDGQNI IKQIQNMIV 420
 EBOGCS 426

Seq ID NO: C224 Protein Sequence
 Protein Accession #: NP_000086.1

1 11 21 31 41 51
 MVPDTACVLL LTLAALGASG QGQSPGSDL GPQMLRELQE TNAALQDVDR WLRQVREIT 60
 FLKNTVMBCD ACGMQQSVRT GLPSVRPLLH CAPGFCFPGV ACIQTESGGR CGPCPAGFTG 120
 NGSHCTDVNE CNAHPCFPRV RCINTSPGFR CEACPPGYSG PTHQGVGLAF AKANKQVCTD 180
 INECETQHN CVFNSVCINT RGSFQCGPCQ PGFVGDAQSG CQRGAQRFPC DGSFSECHKH 240
 ADCVLERDGS RSCVCRVWGA GNGILCGRDT DLDGFFDEKL RCEPQCRKD NCVTVFNSGQ 300
 EDVDRDGIQD ACDPADGDG VFNKONCPL VRNPDQRNTD EDKWDGACDN CRSQKNDDQK 360
 DTDQDGRGDA CDDIDGDRI RNQADNCPRV FNSDQKSDG DGIQDADNC PQKSNPDQAD 420
 VDHDVFQDAC DSDQDQDGDG HQDSRDNCTP VNSAQEDSD HDQGDGACDD DDDNDGVFDS 480
 RDNCRLVFNP QGEDADRQGV GDVCQDDFDA DKVVDKIDVC PENAETVLT DFRFQTVVLD 540
 PEGDAQIDPN WVVLMQGREI VQTMNSDPL AVGYTAFNGV DFEGETFHVNT VTDDDYAGFI 600
 PGYQSSSFY VVMWQMEQT YWQANPFRV AEPGIQLKAV KSSTGPGEQL RNALWHTGDT 660
 ESQVRLWKD PRNVGWKKK SYRWFLQHRP QVGYIRVRFY EGPELVADSN VVLDTTMRGG 720
 RLGVFCPSQB NIWANLYR CNDTIPEDYE THQLRQA 757

Seq ID NO: C225 Protein Sequence
 Protein Accession #: NP_612464

1 11 21 31 41 51

	MRPQGPAAASP	QRLRGLLLLL	LLQLPAPSSA	SEIPKQKQKA	QLRQREVVDL	YNGMCLQGPA	60
	GVPGRDGSFG	ANGIPGTPGI	PGRDGFKGEK	GECLRESFEE	SWTPNYKQCS	WSSLNAYGIDL	120
	GKIAECTFTK	MRSNSALRVL	FSGSLRLKCR	NACQQRWYFT	FNGAECSSGL	PIEAIITLQD	180
	GSPENNSTIN	IHRTSSVEGL	CEGIGAGLVD	VAIWVGTCSD	YPRGDASTGW	NSVSRIIEE	240
5	LPK						243
	Seq ID NO: C226 Protein Sequence						
	Protein Accession #: NP_003216.1						
10	1	11	21	31	41	51	
	MATMENKVIC	ALVLVSMAL	GTLAEAQTET	CTVAPRERQN	CGFPGVTPSQ	CANKGCCFFDD	60
	TVRGVPWCFY	PNTIDVPPEE	ECEP				84
15	Seq ID NO: C227 Protein Sequence						
	Protein Accession #: NP_056234.1						
	1	11	21	31	41	51	
20	MPKRAHWGAL	SVVLILLNGH	PRVALACPHP	CACYVPSEVH	CTFRSLASVP	AGIARHVERI	60
	NLGFNSIQAL	SETSPAGLTK	LELLMIHGNE	IPSIDPGALR	DLSSLQVFKF	SYNKLRVITG	120
	QTLQGLSNLM	RLHIHDKIE	FIHPQAFNGL	TSLRLHLLEG	NLLHQLHPST	FSTFTPLDYF	180
	RLSTIRHLYL	AENMVRTLPA	SMLRNMPLE	NLYLQGNPWT	CDCEMRWFLS	WDAKSRGILK	240
	CKKDKAYEGG	QLCAMCFSPK	KLYKHEIHL	KDMTCLKPSI	ESPLRQNRSR	SIEEEQEQUE	300
25	DGGSQILIEK	FQLPQWSISL	NMTDEHGNMV	NLVCDIKKPM	DVYKIHNLQT	DPPDIDINAT	360
	VALDFECPMT	RENYEKLWKL	IAYYSEVPVK	LHRELMLSKD	PRVSYQYRQD	ADEEALYYTG	420
	VRAQLLAEPF	WVWQPSIDII	LNRRQSTAKK	VLLSYTYQYS	QTIISTKDTRO	ARGRSWVWIE	480
	PSGAVQRQDT	VLEGGPCQLS	CNVKASESPS	IFWVLPDGS	LKAPMDPDPS	KFSILSSGWL	540
	RIKSMEPSDS	GLYQICIAQVR	DEMORMVYRV	LVQSPSTQPA	EKDTVTIGKN	PGESVTILPCN	600
30	ALAIPEAHLK	WILPNRRIIN	DLANTSHVYM	LPNGTSLIPK	VQVSDSGYYR	CVAVNQGGAD	660
	HFTVGIITVK	KGSGLPKRRG	RRPGAKALSR	VREDIVEDEG	SGSGMDEENT	SRRLHLPKQD	720
	EVFLKTKDDA	INGDKKAKKG	RRKLKLWKS	EKEPETNVAE	GRRVFESRRR	INMANKQINP	780
	ERWADILAKV	RGNLPGKTE	VPPLIKTTSP	PSLSLEVTPP	FPVSPSPSAS	PVQTVTSAAE	840
	SSADVPLLGE	EEHVLTGIS	ASMGLEHNEN	GVILVEPEVT	STPLEEVVDD	LSEKTEEITS	900
35	TEGDLKGTAA	PTLISEPYEP	SPTLHTLDTV	YEKPTHEETA	TEGWSAADVG	SSPEPTSSEY	960
	EPFLDAVSLA	ESEPMQYFDP	DLETKSQPD	DKMKEDTFAH	LTPTPTIWN	DSSTSQLFED	1020
	STTIGPGVPG	QSHLQGLTDN	IHLVKSSLS	QDTLLIKKGM	KEMSQTLQGG	NMLEGDPHIS	1080
	RSSESQGES	KSITLPDSTL	GIMSSMSPVK	KPAETTVGTL	LKDKTTTITV	TPRQKVPASS	1140
	TMSTHPSRRR	PNRRRLRPN	KFRHRHKQTP	PTTFAPSETF	STQPTQAPDI	KISSQVESSL	1200
40	VPTAWVDNTV	NTPKQLEMEK	NAEPTSCKGP	RRKHGKRPNK	HRYTPSTVSS	RASGSKPSPS	1260
	PENKRNIVT	PSSETILLPR	TVSLKTEGYP	DSLDMYMTTR	KIYSSYPKRV	ETLFPVTKPT	1320
	SDGKEIKDDV	ATNVDKHKS	ILVTGESITN	ALPSTRSLVS	TMGEFKEESS	PVGFPGPTPW	1380
	NPSRTAQGR	KSTIDIPVTS	GENLTDPLLL	KELEDVDFTS	EFLSSLTVST	PFHQEAGSS	1440
45	TTLSSIKVEV	ASSQATTTTL	QDHLLETTVA	ILLSETRPQN	HTPTAARMKE	PASSSPSTIL	1500
	MSLQQTITTK	PALPSPRIIS	ASRDSKENVF	LNIVGNPETE	ATPVNNEGTO	HMSGPNELST	1560
	PSSDRDAPNL	STKLELEKQV	FGSRSLPRGP	DSQRQDGRVH	ASHQLTRVPA	KPILPTATVR	1620
	LPMSQTSR	RYFVTQSQSP	HWINKPEITT	YPSGALPENK	QFTTFLSLST	TIPLEPLHMSK	1680
	PSIPSKFDR	VTQDFNGYSK	VFGNNNIPKA	RNPVGKPPSP	RIPHYSGNRL	PFTTNKTLSP	1740
50	PQLGVTRRRP	IPTSPAPVMR	ERKVIKPSYN	RIHSHSTFHL	DFGPPAPPLL	HTPQTITGSPS	1800
	TNLQNIIPMV	STQSSISFIT	SSVQSSGSPH	QSSSKFPAGG	PPAKFWSLIG	EKPQILTKSP	1860
	QTVSVTAETD	TVFPCBATGK	PKPFVTWTKV	STGALMTFNT	RQRFEVLKVN	GTLVIRKQVQ	1920
	QDRQYQCTA	SNLHGLDMV	VLLSVTVQOP	QILASHYQDV	TVYLGDTIAM	ECLAKGTAP	1980
	QISWIFPDR	VKQTVSPVES	RITLHENRTL	SIKEASFSDR	GVYKCVASNA	AGADSLAIRL	2040
55	HVAALPPVIR	QEKLEISLSP	PGLSIHICT	AKAAPLPVSR	WVLGDGTQIR	PSQFLHGNLF	2100
	VFPNGTLYIR	NLAPKDSGRY	ECVAANLVGS	ARRTVQLNVQ	RAAANARITG	TSPRTDVRV	2160
	GGTLKLDCSA	SGDPWPRIIL	RLPSKRMIDA	LPSFDSRIKV	FANGTLVVKV	VTDKDAGDYL	2220
	CVARNKVGDD	VVLKVDVVM	KPAKIEHKEE	NDHKVYFGGD	LKVDCAVATG	PNFESISWLP	2280
	DGSLVNSFG	SDDSGGRTKR	YVFPNGTLY	FNEVGMREEG	DYTCFAENQV	GKDEMVRVK	2340
60	VVTAPATIRN	KTYLAVQVPY	GDVTVACEA	KGEPMKVTW	LSPTNKVIPT	SSEKVIQIQD	2400
	GTLILQKAQR	SDSGNYTCLV	RNSAGEDRKT	VWIVNVVQPP	KINGNPNPIT	TVREIAAGGS	2460
	RKLIDCKAEG	IPTPRVLWAF	PEGVVLPAFY	YGNRITVHGN	GSILDIRSLK	SDSVQLVCM	2520
	RNEGGEARLI	VQLTVLEPME	KPIPHDPISE	KITAMAGHTI	SLNCSAAGTP	TPSLVWVLPN	2580
	GTDLQSGQQL	QRFYHKAADM	LHISGLSSVD	AGAYRCVARN	AAGHTERLVS	LKVLKPEAN	2640
65	KQYHNLSVII	NGETLKLPC	PPGACQGRFS	WTLFNGMHLE	GPQTLGRVSL	LDNGTLTVRE	2700
	ASVDFDRGTY	CRMETSYGPS	VTSIPFIVIA	YFPRTITSEPT	FVIYTRPGNT	VKLNCNMGAI	2760
	PKADITWELP	DKSHLKAGVQ	ARLYGNRFLH	PQGSILTIQHA	TQRDAGFYKC	MAKNILGSDS	2820
	KTTHIHVF						2828
70	Seq ID NO: C228 Protein Sequence						
	Protein Accession #: Eos sequence						
	1	11	21	31	41	51	
75	MPGTLKTRTG	APADYRVILK	TSQEDELDPV	DDISVRVMSS	QSVLVSFVDF	VLEKQKKVVA	60
	SRQYTVRYRE	KGELARWDYK	QIANRRVLIE	NLIPDTVYEF	AVRISQGERD	GKWSSTVFQR	120
	TPESAPTTAP	ENLNVWVPNG	KPTVVAASWD	ALPETEGKVK	VCLLDTGFLS	VSSFQPSAKS	180
	FQNTFFHTFR	LSNHLQSPS	PILETLALLP	WMVCSLGNAI	FSKSGPQTGE	AWDLTPKPSL	240
	SLCQCECST	KQDKCECLAY	IDIQTKQVKN	DPQLEGSVFG	PCFLFYFLTF	MLDIGGFSFI	300
80	MCYEDP?VSS	LTGNSLKSVA	ASKADVQONT	EDNGKPEKPE	PSSPSPRAPA	SSQHPSPVAP	360
	PQGRNAKDLL	LDLKNKILAN	GGAPRKPQLR	AKKAEELDLQ	STEITGEEEL	GSREDSPMSP	420
	SDTQQRKRTL	RPPSRHGHSV	VAPGRTAURA	RMPALPRREG	VDKFPGSLAT	QPRPGAPPSA	480
	SASPAHAST	QGTSHRPSLP	ASLNDNDLVD	SDEDERAVGS	LHPKGAFAPQ	RPALSPSRQS	540
	PSSVLDRSS	VHFGAKPASP	ARRTPHSGAA	EEDSSASAPP	SRLSPPHGGS	SRLLPQPHL	600
	SSPLSKGGKD	GEDAPATNSN	APSRSTMSSS	VSSHLSSRTQ	VSEGAEASDG	ESHGDGDRD	660

5 GGRQAEATAQ TLRARPASGH FHLLRHKPPA ANGRSPSRFS IGRGPRLQPS SSPQSTVPSR 720
 AHPRVPSHSD SHPKLSSGIH GDEEDEKPLP ATVVNDHVPS SSRQPISRGM EDLRRSPQRG 780
 ASLHRKEPI ENPKSTGADT HPQGYSSLA SKAQDVQST DADTEGHSFK AQPSTDRHA 840
 SPARPPAARS QQHPSVPRRM TPGRAPEQQP PPPVATSQHH PGQSRDAGR SPSQPRLSLT 900
 10 QAGRPRPTSQ GRSHSSSDPY TASSRGMFLT ALQNQDEDAQ GSYDDDDSTEV EAQDVRAPAH 960
 AARAREAAAS LPKHQQVESP TGAGAGGDHR SQRGHAASPA RPSRPGGPQS RARVPSRAAP 1020
 GKSEPPSKRP LSSKSQQSVS AEDEEEEDAG FFKGGKEDLL SSSVPKPWSS STPRGGKDAD 1080
 GSLAKEEREP AIALAPRGGS LAPVKRPLPP PPGSSPRASH VPSRPPPSA ATVPVAGTH 1140
 PWPRTYTRAP PGHFTSTPML SLRQRMHAR FRNPLSRQA RPSYRQGYNG RPNVEGKVL 1200
 GSNKGPNQGR IINGPQGTGW VVDLDRGLVL NABGRYLQDS HGNPLRIKLG GDGRTIVDL 1260
 GTPVVSDGL PLFGQGRHGT PLANAQDKPI LSLGGKPLVG LEVIKKTTHP PTTMQPTTT 1320
 TTPLETTTTP RPTTATTMQP TTTTTPLETT TPRPTTATR RTTTRPTTT VRTTTRTTT 1380
 15 TTPKPTTPIP TCPPGTLERH DDDGNLIMSS NGIPECYAE DEFSGLETD AVPTTEAYVI 1440
 YDEDEYFETS RPPTTTEPST TATTPRVIPE EGAISSFPPE EFDLAGRKR VAPVVTYLNK 1500
 DPSAPCSLTD ALDHQFVDSL DEIIPNDLKK SLDLPPQHAPR NITVVAVEGC HSFVIVDWDK 1560
 ATPGLVTVG LVYSASYEDF IRNKFSTQAS SVTHLPIENL KPNTRYFFKV QAQNPBGYGP 1620
 ISPSVSFVTE SDNPLLVVRP PGELSGSHS LSNMIPATRT AMDGNM 1666

Seq ID NO: C229 Protein Sequence
Protein Accession #: NP_003005.1

25 1 11 21 31 41 51
 MFLSILVALC LWMHLALGVR GAPCEAVRIP MCRHMPWNIT RMPNHLHHST QENAILAIEQ 60
 YEELVDVNC AVLRFFFCAM YAPICTLEFL HDPKPKCKSV CQRARDDCEP LMKMYNHSWP 120
 ESLACDELFP YDRGVCISPE AIVTDLPEDV KWIDITPDM VQERPLDVC KRLSPDRCK 180
 KKVKPTLATP LSKNYSVIYH AKIAQVORSG CNEVTVVDV KEIFKSSSPI PRTQVPLITN 240
 SSKCPHILP HQDVILMCYE WRSRMMLLEN CLVEKNRDL SKRSIQWEER LQEQRTVQD 300
 30 KKTAGRTSR SNPPKPKGK PAKPASPKK NIKTRSAQKR TNPKR 346

Seq ID NO: C230 Protein Sequence
Protein Accession #: NP_005931.1

35 1 11 21 31 41 51
 MAPAAWLRS AARALLPPL LLLQPPFL ARALFPDVH LHAERRGPQ WHAALPSSPA 60
 PAPATQEA PR PASSLRPPRC GVPDFSDGLS ARNRQKRFVL SGRWEKTOL TYRILRFPWQ 120
 40 LVQEQVRQTM AEALKVNSDV TPLTFTVEHE GRADIMIDFA RYWHGDDLFP DGPGLLAHA 180
 FFPKTHREGD YFDYDETWT IGDDQGTDL QVAAHEFGHV LGLQHTTAAK ALMSAFYTF 240
 YPLSLSPDDC RVQHLGQGP WPTVTSTPA LGPQAGIDTN EIAPLEPDAP PDACEASFDA 300
 VSTIRGELFP FKAGFVNR LR GGQLQGPYA LASRHQGLP SPVDAAFEDA QGHWFFQGA 360
 QYVWYDGEKP VLGPALTEL GLVRFPVHAA LVWGPEKNKI YFFRGRDYMR FHPSTRRVS 420
 45 FVPRRATDWR GVPSEIDAAF QDADGYAYFL RGRLYWKFDV VKVKALEGFP RLVGPDFFGC 480
 AEPANTFL 488

Seq ID NO: C231 Protein Sequence
Protein Accession #: NP_076927

50 1 11 21 31 41 51
 MGENDPFAVE APFSFRSLFG LDDLKISFVA PDADAVAAQI LSLPLKFFP IIVIGIILI 60
 LALAIGLGIH FDCSGKRYCR SSFKCIBLIA RCDGVSDCKD GEDEYRCVRV GQNAVLPVF 120
 55 TAASWKTMCS DDWKGHYANV ACAQLGFPSY VSSDNLRVSS LEGQFREEFV SIDHLLPDDK 180
 VTALHHSVYV REGCASGHV TLQCTACGHR RGYSSRIVGG NMSLLSQWFM QASLQFQGYH 240
 LCGGSVITPL WIITAAHCYV DLYLEKSWTI QVGLVSLDN PAPSHLVEKI VYHSKYKPKR 300
 LGNDIALMKL AGPILTFNMI QPVCLEPSEE NFPDQKVCWT SGWGATEDGG DASFVLNHAA 360
 VPLISNKICN HRDVYGGIIS PSMLCAGYLT GGVDSQCQDS GGFLVCQERR LWKLVGATSF 420
 60 GIGCAEVNKP GYVTRVTSFL DWIHEQMERD LKT 453

Seq ID NO: C232 Protein Sequence
Protein Accession #: NP_003211

65 1 11 21 31 41 51
 MLWKLTDNIK YEDCEDRHG TSNGTARLPQ LGTVGQSPYT SAPPLSHTPN ADFQPPYFPP 60
 PYQPIYPSQ DPYSHVNDPY SLNPLHAQPO PQHPGWPGQR QSQESGLHT HRGLPHQLSG 120
 LDPRDVRRH EDLLHGPHAL SSGLDLSIH SLPHAIIEVP HVEDPGINIP DQTVIKKGPV 180
 70 SLKSNSENAV SAIPINKDNL FGGVVNPNEV FCSVPGRLSL LSSTSKYKVT VAEVQRRLSP 240
 PECLNASLLG GVLRRASKN GGRSLREKLD KIGLNLPAGR RKAANVTILT SLVEGEAVHL 300
 ARDPGYVCET EFPKAVAEF LNRQHSPPNE QVTRKNMLLA TKQICKFTD LLAQDRSPLG 360
 NSRPNPILEP GIQSCLTFRN LISHGFGSPA VCAAVTALQN YLTEALKAMD KMYLSNNPNS 420
 HTDNNAKSSD KEEKHRK 437

Seq ID NO: C233 Protein Sequence
Protein Accession #: NP_002979.1

80 1 11 21 31 41 51
 MKGLAALLV LVCTMALCSC AQVGTNKELC CLVYTSWQIP QKPIVDYSET SPQCPKPGVI 60
 LLTKRGRQIC ADPNKKWQK YISDLKINA 89

Seq ID NO: C234 Protein Sequence
Protein Accession #: NP_004054.1

	1	11	21	31	41	51	
5	MILQAHLHSL	CLLMLYLATG	YGQEGKFSGP	LKPMTFSIYE	GQEPSQIIFQ	FKANPPAVTF	60
	ELTGSTDNIF	VIEREGLLYY	NRALDRETRS	THNLQVAALD	ANGIIVEGVP	PITIEVKDIN	120
	DNRPTFLQSK	YEGSVRQNSR	PGKPFYLVNA	TDLDDPATPN	GQLYYQIVIQ	LPMINNVMYF	180
	QINNKTGAIS	LTREGSQELN	PAKNPSYNLV	ISVKDMGGQS	ENSFSDTTSV	DIIVTENIWK	240
	APKPVEMVEN	STDPHRIKIT	QVRWNDPGAQ	YSLVDKEKLP	RFPFSIDQEG	DIYVTQPLDR	300
10	EEKDAYVPYA	VAKDEYKPL	SYPLEIHVKV	KDINDNPPTC	PSPTVTFEVQ	ENERLGNISG	360
	TLTAHDRDEE	NTANSFLNYR	IVEQTPKLP	DGLPLIQTYA	GMLQLAKQSL	KKQDTPQYNL	420
	TIEVSDKDFK	TLCFVQINVI	DINDQIPIFE	KSDYGNLTLA	EDTNIGSTIL	TIQATDADEP	480
	FTGSSKILYH	IIKGDSEGR	GVDTDPHNT	GYVLIKKPLD	FETAAVSNIV	FKAENPEPLV	540
	FGVKYNASSF	AKFTLIVTDV	NEAPQFSQHV	FOAKVSEDVA	IGTKVGNVTA	KDPEGLDISY	600
15	SLRGDTRGWL	KIDHWGEIF	SVAPLDREAG	SPYRVQVAT	EVGSSSLSSV	SEPHLILMDV	660
	NDNPPRLAKD	YTLGFCHPL	SAPGSLIFEA	TDDQHLFRG	PHFTFSLGSG	SLQNDWEVSK	720
	INGTHARLST	RHTEFEERY	VVLIRINDGG	RPPLLEGIVSL	PVTFCSCEVG	SCFRPAGHQT	780
	GIPTVGMVAV	ILLTLLLVIG	IILAVVFIRI	KDKGKDNVE	SAQASEVKPL	RS	832

Seq ID NO: C235 Protein Sequence
Protein Accession #: NP_004434.1

	1	11	21	31	41	51	
25	MARARPPPPP	SPPPGLLPLL	PPLLLLPLLL	LPAGCRALEE	TMDTKWVTS	ELAWTSHPES	60
	GWEEVSGYDE	AMNPRTYQV	CNVRESSQNN	WLRTGFIWRR	DVQRVYVELK	FTVRDCNSIP	120
	NIPGSCKETP	NLFYYEADSD	VASASSPFWM	ENPYVKVDTI	APDESFRSLD	AGRVNTKVR	180
	FGPLSKAGFY	LAFQDQGACM	SLISVRAFYK	KCASTTAGFA	LPETLTGAE	PTSLVIAPGT	240
	CIPNAVEVS	FLKLYCNGDG	EMMVPVGAET	CATGHEPAK	ESQCRPCFPG	SYKAKQGEPP	300
30	CLPCPNRSRT	TSPAASICTC	HNNFYRADSD	SADSACTTVP	SPPRGVISNV	NETSLILEWS	360
	EPRLDGRDD	LLYNVICKKC	HGAGGASACS	RCDDNVEFVP	RQLGLTERRV	HISHLAHTR	420
	YTFEVQAVNG	VSKGSLPFR	YAAVNITTNQ	AAPSEVPTLR	LHSSSGSSLT	LSWAPPERPN	480
	GVILDYEMKY	FEKSEGIAT	VTSQMSVQL	DGLRFDARYV	VQVRARTVAG	YQYSRPAEF	540
	ETTSESGSGA	QQLQEQLPLI	VGSATAGLVE	VVAVVVIATV	CLRKQRHGS	SEYTEKLQY	600
35	IAPGMKVYID	PFTYEDPNEA	VREFAKEIDV	SCVKIEEVIG	AGEFGEVCRG	RLKQPGRRREV	660
	FVAIKTLKVG	YTERQRDPL	SEASIMQFQD	HPNIIIRLEGV	VTKSRPVMIL	TEFMENCALD	720
	SFLRLNDGQF	TVIQLVGMRL	GIAAGMKYLS	EMNVVHRDLA	ARNILVNSNL	VCKVSDFGLS	780
	RFLSDPSPDP	TYTSSLGKGI	PIRWTAPEAI	AYRKFTSASD	VWSYGVWME	VMSYGERPYW	840
	DMSNQDVINA	VEQDYRLPPP	MDCPTALHQL	MLDCHVRDRN	LRPKFSQIVN	TLDKLIRNAA	900
40	SLKVIASAQ	GMSQPLDRT	VPDYTTFTTV	GDWLDAIKMG	RYKESFVSAG	FASFDLVAQM	960
	TAEDLLRIGV	TLAGHQKKIL	SSIQDMRLQM	NQTLFVQV			998

Seq ID NO: C236 Protein Sequence
Protein Accession #: NP_001795.1

	1	11	21	31	41	51	
45	MYVGIVLDKD	SPVYPGPARP	ASLGLGPANY	GPPAPPPAPP	QYPDFSSSYSH	VEPAPAPPTA	60
	WGAPFPAPKD	DWAAAYGPGP	AAPASPASL	AFGPPPDFSP	VPAPPGPGPG	LLAQPLGGPG	120
	TPSSPGAQRP	TPYEMRRRSV	AAGGGGGSGK	TRTKDKYRVV	YTDHQRLELE	KEPHYRYIT	180
50	IRKSELAAN	LGLTERQVKI	WFQNRRAKER	KVNKKKQQQQ	QPPQPPMAHD	ITATPAGPSL	240
	GGLCPSNTSL	LATSSPMFVK	EEFLP				265

Seq ID NO: C237 Protein Sequence
Protein Accession #: NP_068813.1

	1	11	21	31	41	51	
60	MGSDRARKGG	GGPKDFGAGL	KYNSRHEKVN	GLEEGVEFLP	VNVKKVEKH	GPCRWVVLAA	60
	VILIGLLVLL	GIGFLVWHLQ	YRDVRVQKVF	NGYMRITNEN	FVDAYENSNS	TEFVSLASKV	120
	KDALKLLYS	VPFLGPYHKE	SAVTAFSBGS	VIAYYSEFS	IPQHLVEAE	RVMAEERVVM	180
	LPFRARSLKS	FVTVSVVAFP	TDSKTVQRTQ	DNSCSFGLHA	RGVELMRFTT	PGFPDSPYPA	240
	HARQWALRG	DADSVLSLTF	RSFDLASDCE	RGSDLVTVYN	TLSPMEPHAL	VQLCGTYPFS	300
	YNLTFFHSQN	VLLITLITNT	ERRHPGFAT	FFQLPRMSSC	GGRLRKAQGT	FNSFYYPGHY	360
65	PPNIDCTWNI	EVPPNQHVKG	RFKPFYLLPE	GVPAGTCPKD	YVEINGEKYC	GERSQFVVT	420
	NSNKITVRFH	SDQSYTDGTF	LAEYLSYDSS	DPCPGQFTCR	TGRCIRKELR	CDGWADCTDH	480
	SDELNCSCDA	GHOFTCKNKF	CKPLFWCDS	VNDQGDNSDE	QGCSCPAQTF	RCSNGKCLSK	540
	SQCCNGKDDC	GDGSDASCP	KUNVVTCTKH	TYRCLNGLCL	SKGNPECDGK	EDCSGDSDEK	600
	DCDCGLRSFT	RQARVVGTD	ADEGEWPHQV	SLHALGQGH	CGASLISPNW	LVSAAHCYID	660
70	DRGFRYSPT	QWTAFLGLHD	QSQRSAPGVQ	ERRLKRISH	PPFNDFTFDY	DIALLELEKP	720
	AEYSSMVRPI	CLPDASHVFP	AGKAIWVTGW	GHTQYGGTGA	LILQKGEIRV	INQTTCEMLL	780
	PQITPRMCM	VGPLSGGVDS	CQGDSSGGLS	SVEADGRIFQ	AGVVSWGDC	AQRNKPQVIT	840
	RLPLFRDWIK	ENTGV					855

75 Seq ID NO: C238 Protein Sequence
Protein Accession #: Eos sequence

	1	11	21	31	41	51	
80	MPPFLLEAV	CVFLFSRVPP	SLPLQEVHVS	KETIGKISAA	SKMMWCSAAV	DIMFLLDGNS	60
	SVGKGSFERS	KHPALIVCDG	LDISPERVRV	GAFQFSSTPH	LEFPLDSPT	QQEVKARIKR	120
	MVFKGRTET	BLALKYLLHR	GLPGGRNASV	PQILITVTDG	KSQGDVALPS	QKLKERGVTV	180
	FAVGVRFRPW	EHILHALASEP	RQQRVLLAQ	VEDATNGLES	TLSSSAICSS	ATPDCRVEAH	240
	PCEHRTLEMV	REFAGNAPCW	RGSRRTLAVL	AAHCPFYSWK	RVFLTHPATC	YRTTCPGPCD	300
	SQPCQNGGTC	VEPGLDGYOC	LCPLAFGGEA	NALKLSLEEC	RVDLLFLDLS	SAGTTLDGFL	360

5 RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPLVWSL DGIPFRGGPT 420
 LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLETSHSEDE VAGPARHARA RELLLLGVGS 480
 EAVRAELEEI TGSFKHVMVY SDPQDLFNQI PELQGLCSR QRPQCRTQAL DLVFMMLDTSA 540
 SVGPENFAQM QSFVRSCALQ FEVNPDTVQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
 APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLV GGRGAEDAAV PAQKLRNNGI 660
 SVLVVGVGPV LSEGLRLLAG PRDSLHVA AADLRYHQDV LIEWLCEGAK RPNVNLCKPSP 720
 CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR FLRRP 755

10 Seq ID NO: C239 Protein Sequence
 Protein Accession #: Bos sequence

15 1 11 21 31 41 51
 | | | | |
 MPPFLLEAV CVFLPSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60
 SVRGSGFERS KHPAITVCDG LDISPFRVVR GAFQFSSTPH LEFLDLSFST QDEVKARIKR 120
 MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIIIVTDG KSQGDVALPS KQLKRGVTV 180
 FAVGVRFPFRW EELHALASEP RGQHVLLEAQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH 240
 PCEHRTLEMV RSEFANAPCW RGSRRTLAVL AAHCFFYSWK RVFLTHPATC YRTTCGPGCD 300
 SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLDLS SAGTTLDGFL 360
 20 RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPLVWSL DGIPFRGGPT 420
 LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLETSHSEDE VAGPARHARA RELLLLGVGS 480
 EAVRAELEEI TGSFKHVMVY SDPQDLFNQI PELQGLCSR QRPQCRTQAL DLVFMMLDTSA 540
 SVGPENFAQM QSFVRSCALQ FEVNPDTVQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
 APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLV GGRGAEDAAV PAQKLRNNGI 660
 25 SVLVVGVGPV LSEGLRLLAG PRDSLHVA AADLRYHQDV LIEWLCEGAK RPNVNLCKPSP 720
 CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR EWSSCSVCVS QGWILETPLR HMAPVQEGSS 780
 RTPPSNYREG LGTEMVPTFW NVCAPGP 807

30 Seq ID NO: C240 Protein Sequence
 Protein Accession #: XP_097386.1

35 1 11 21 31 41 51
 | | | | |
 MPKSEPLGCL SPASRAPGSA AATGANLPAA SGGPGPLGPP CTCPPRSLGR GRAGSRAGSS 60
 PSGCVCVSGI LRUVSVGDPA SRRWVDLSN SEDLSLLTP MIVGTGGVGG GWARGMWPAQ 120
 EKEVAEGSGH AGRGNRRRLQ RVYGARSWIL GRKPCQLRLI PASGGPVQPQ PCPSPATACR 180
 WGFKPGVAFW GAAQHPPLCR LGGGRAPVSA TRTLDGF 217

40 Seq ID NO: C241 Protein Sequence
 Protein Accession #: CAC03433

45 1 11 21 31 41 51
 | | | | |
 MLSSTDTFTA SWELVVRVDH PNEEQKQDVT LRVSGDLHVG GVMKLVEQI NISQDWSDF 60
 LNWQKQHCWL LKHTWTLDKY GVQADAKILF TPQHMLRLR LPNLKMLRLR VFSFAVFEKA 120
 VSDICKILNI RRSEELSLLK PSGDYFKKKK KDKNNKEPI IEDILNLESS PTASGSSVSP 180
 GLYSKMTMPI YDPINGTPAS STMTWFSDFP LTEQNCSTLA FSQPPQSPEA LADMYQPRSL 240
 VDKAKINAGW LSSRSLSMEQ GIQEDBQLLL RFKYYSFFDL NPKYDAVRIN QLYEQARWAI 300
 50 LLEEIDCTEE EMILPAALQY HISKLSLSAE TODPAGESEV DEIBAALSNI EVTLEGGKAD 360
 SLLEDITDIP KLANLKLFR PKKLLPKAPK QYWFIFKOTS IAYFKNKELE QCEPLEKLN 420
 RGEVVPDVN VAGKFKGIKL LIPVADGMNE MYLRCDHENQ YAQWMAACML ASKKGTMADS 480
 SYQPEVLNLI SFLRMKNRNS ASQVASSLEN MDMNPECFVS PRCAKHKSK QLAARILEAH 540
 QNVAQMPLVE AKLRFITQAWQ SLPEFGLTYY LVRFKGSKKD DILGVSYNRL IKIDAATGIP 600
 55 VTTWRFTNPK QMNVNWEITRQ VVIEFDQNVF TAFTCLSDAC KIVHEYIGGY IFLSTRSKDQ 660
 NETLDBDLFH KLTGGQD 677

60 Seq ID NO: C242 DNA Sequence
 Nucleic Acid Accession #: NM_005170
 Coding sequence: 337..918

65 1 11 21 31 41 51
 | | | | |
 GGGCGTGAGA AAGGCGACGG CGGCGGCGCG GAGGAGGGTT ATCTATACAT TTAACAAACCA 60
 GCCGCTCTGC CCGGCTCTGC GGAGACCTGG GAGAGTCCGG CGCAGCAGCG GGGACACGAG 120
 CGTCCACACG TCCCTGGCGC GTACGGCTGC CCACCACTAG GCCTCCTATC CCCGGGCTCC 180
 AGACGACCTA GGAGCGCTGC CCTGGGGAGT TGCTGGCGCG CGCGTGCCCA GAAGCCCCCT 240
 TGGGGGCGCA CAGTTTTCCT CGTCGCTTCC GGTTCCTCTG CTGCACTCTT CTGCGGCGCG 300
 GCGGGGACCT GGAGCGGGCG GGTGGATGCA GCGCGATGG ACGGCGGCAC ACTGCCACGG 360
 70 TCCGCGCCCT CTGCGCCCTC GTTCCCTGTC GGCTGGCTG CCGGCGGAG ACCCGCGTCT 420
 CCGGAACCTG TGGCTGCG CCGGCGGCG CGACCGGCCA CCGCAGAGAC CGGAGGCGGC 480
 GCAGCGGCGG TAGCGCGGCG CAATGAGCGC GAGCGCAACC CGGTGAAGCT GGTGAACCTG 540
 GGCTTCAGG CGCTGCGGCA GCACGTGCGG CACGCGGCG CGACGAAGAA GCTGAGCAAG 600
 GTGGAGACGC TGGCTCAGC CGTGGAGTAC ATCCGCGCGC TGCAGCGCTT GCTGGCGGAG 660
 75 CACGACGCGC TGGCACAACG GCTGGCGGGA GGGCTGAGGC CGCAGGCGGT GCGGCCGTCT 720
 GCGCCCGCGG GCGCGCCAGG GACCAACCGG GTGCGCGCTT CGCCCTCCCG CGCTTCTTGG 780
 TCCCGGCGCC GCGGGGCGAG CTCGGAGGCC GGCTCCCGCG GTTCCGCTTA CTCGTGGGAG 840
 GACAGCGGCT GCGAAGCGCG GCTGAGTCTT GCGGAGCGCG AGCTACTCGA CTTCTCCAGC 900
 80 TGGTTAGGGG GCTACTGAGC GCCCTCGACC TA 932

Seq ID NO: C243 Protein Sequence
 Protein Accession #: NP_060233.1

1 11 21 31 41 51

	MSGGHQLQLA	ALWPWLLMAT	LQAGFGRTGL	VLA AAVERES	SAEQKAVIRV	IPLKMDPTGK	60
	LNLTLGVFA	GVAEITPAEG	KLMQSHPLYL	CNASDDNLE	PGFISIVKLE	SPRRAPRPLC	120
5	SLASKARMAG	ERGA S AVLFD	ITEDRAAAEQ	LQQLGLTWP	VVLIWGNDAE	KLMEFVYKNQ	180
	KAHVRIELKE	PPAWPDYDVW	ILMTVVGTIF	VIIASVLRI	RCRPRHSRPF	PLQRTAWAI	240
	SQLA TRYQA	SCRQARGWEP	DSGSSCSSAP	VCAICLEEPS	EGQELRVISC	LHEFHRNCVD	300
	PWLHQHRTCP	LCVFNITEGD	SFSQSLGPSR	SYQEPGRRLH	LIRQHPGHAH	YHLPAYLLG	360
	PSRS AVARPP	RPGPFLPSQE	PGMGRHHRF	PRAAHPRAPG	EQQLAGAQH	PYAQGWGMSH	420
10	LQSTSQHPPA	CPVPLRRARP	PDSSGSGSEY	CTERSGYLAD	GPASDSSSGP	CHGSSSDSVV	480
	NCTDISLQGV	HGSSSTFCSS	LSSDFDPLVY	CSPKGDPPQRV	DMQPSVTSRP	RSLDSVVPTG	540
	ETQVSSHVHY	HRHRHHYK	RFQWHGRKPG	PETGVQPSRP	PIPTQPQPE	PPSPDQQVTG	600
	SNSAAPSRL	SNPQCPRALP	EPAPGPVDAS	SICPSTSSLF	NLQKSSLSAR	HPQRKRGGP	660
	SEPTPGSRPQ	DATVHPACQI	FPHYTPSVAY	PWSPEAHPLI	CGPPGLDKRL	LPETPGFCYS	720
15	NSQPVMCLCT	PRQPLEPHPP	GEGPSEWSSD	TAEGRPCPYF	HCOVLSAQPG	SEEELELCE	780
	QAV						783

Seq ID NO: C244 DNA Sequence
Nucleic Acid Accession #: NM_004289
Coding sequence: 493..1695

	1	11	21	31	41	51	
	GCGCGCGCCT	CGTCCACCGG	AGGAGCGCGC	GCCAGCGTGG	ACGGCGGCAG	CCAGGCTGTG	60
	CAGGGGGCGG	GCGGGGACCC	CCGAGCGGCT	CGGAGTGGCC	CCTTGGACGC	CGGGGAAGAG	120
25	GAGAAGGCAC	CCGCGGAACC	GACGGCTCAG	GTGCCGGACG	CTGGCGGATG	TGCGAGCGAG	180
	GAGAA TGGGG	TACTAAGAGA	AAAGCACGAA	GCTGTGGATC	ATAGTTCCCA	GCA TGAAGAA	240
	AATGAAGAAA	GGGTGTCAGC	CCAGAAGGAG	AACTCACTTC	AGCAGAA TGA	TGATGATGAA	300
	AACAAAATAG	CAGAGAAACC	TGACTGGGAG	GCAGAAAAGA	CCACTGAATC	TAGAAATGAG	360
30	AGACATCTGA	ATGGGACAGA	TACTTCTTTC	TCTCTGGAAG	ACTTATTTCCA	GTTCGTTTCA	420
	TCACAGCCTG	AAAATTCAC	GGAGGGGCATC	TCATTGGGAG	ATATTCTCTCT	TCCAGGCGAGT	480
	ATCAGTGA TG	GCA TGAATTC	TTCAGCACAT	TATCATGTAA	ACTTCAGCCA	GGCTATAAGT	540
	CAGGATGTGA	ATCTTCATGA	GGCCATCTTG	CTTTGTCCCA	ACAATACATT	TAGAAGAGAT	600
	CCAACAGCAA	GGACTTCA CA	GTCAACAAGAA	CCATTCTGCG	AGTTAAATTC	TCATACCACC	660
35	AATCCTGAGC	AAACCCCTCC	TGGAAC TAA	TTGACAGGAT	TTCTTTTACC	GGTTGACAAT	720
	CATATGAGGA	ATCTAACAA G	CCAAGACCTA	CTGTATGACC	TTGACATAAA	TATATTTGAT	780
	GAGATAAAGT	TAATGTCA TT	GGCCACAGAA	GACAACTTTG	ATCCAATCGA	TGTTTCTCAG	840
	CTTTTGTATG	AACCAAGATTC	TGATTTCTGGC	CTTTCTTTAG	ATTCAAGTCA	CAATAATACC	900
	TCTGTCA TCA	AGTCTAATTC	CTCTCACTCT	GTGTGTGATG	AAGGTGCTAT	AGGTTATTGC	960
40	ACTGACCATG	AATCTAGTTC	CCATCATGAC	TTAGAAGGTG	CTGTAGGTGG	CTACTACCCA	1020
	GAACCCAGTA	AGCTTTGTCA	CTTGGATCAA	AGTGATTCTG	ATTTCCATGG	AGATCTTACA	1080
	TTTCAACAGC	GATTTCA TAA	CCACACTTAC	CACTTACAGC	CAACTGCACC	AGAATCTACT	1140
	TCGTGAACCTT	TTCCGTGGCC	TGGGAAGTCA	CAGAAGATAA	GGAGTAGATA	CCTTGAAGAC	1200
	ACAGATAGAA	ACTGTAGCCG	TGATGAACAG	CGTGCTAAAG	CTTTCATAT	CCCTTTTCTT	1260
45	GTAGATGAAA	TTGTCGGCAT	GCCTGTTGAT	TCITTCAATA	GCATGTTAAG	TAGATATTAT	1320
	CTGACAGACC	TACAAGTCTC	ACTTATCCGT	GACATCAGAC	GAAGAGGGAA	AAATAAAGTT	1380
	GCTGCGCAGA	ACTGTGCTAA	ACGCAAA TTG	GACATAATTT	TGAATTTAGA	AGATGATGTA	1440
	TGTAAC TGC	AAGCAAAGAA	GGAAACTCTT	AAGAGAGAGC	AAGCACAATG	TAACAAAGCT	1500
	ATTAACATAA	TGAAACAGAA	ACTGCATGAC	CTTTATCATG	ATATTTT TAG	TAGATTAA GA	1560
50	GATGACC AAG	GTAGGCCAGT	CAATCCCAAC	CAC TATGCTC	TCCAGTGTAC	CCATGATGGA	1620
	AGTATCTTGA	TAGTACC CAA	AGAACTGGTG	GCCTCAGGCC	ACAAAAAGGA	AACCCAAAG	1680
	GGAAAGAGAA	AGTGAAGA GA	AACTGAAGAT	GGACTCTATT	ATGTGAAGTA	GTAATGTTCA	1740
	GAAACTGATT	ATTTGGATCA	GAAACCAATTG	AAACTGCTTC	AAGAATTGTA	TCTTTAAGTA	1800
	CTGCTCATCA	AATAACTGAG	TTAAGCTGT	TTTGAAGCTT	ACATGGACAA	ATGTTTAGGA	1860
55	CTTCAAGATC	ACACTTGTGG	GCAATCTGGG	GGAGCCACAA	CTTTTCATGA	AGTGCA TTGT	1920
	ATACAA AATT	CATAGTTATG	TCCAAGAAAT	AGGTAAACAT	GAAAACCCAG	TAA GACTTTC	1980
	CATCTTGCCA	GCCCTCTTTT	TTAAGAGTAA	GTGTGTTACT	TCAAAAAGAG	CAAACTGCGT	2040
	GGATCAA AAT	ATTTTAAGAG	GTATTTTCA GT	TTTAAATGCA	AAATAGCCTT	ATTTTCAATT	2100
	AGTTTGT TAG	CAC TATATG	AGCTTTTCAA	ACACTATTTT	AATCTTTATA	TTTAACTTAT	2160
60	AAATTTTGCT	TTCT					2174

Seq ID NO: C245 Protein Sequence
Protein Accession #: NP_004433

	1	11	21	31	41	51	
65	MALRRLLGAAL	LLLPLLA AVE	ETLMDSTTAT	AELGWMVHPP	SGWEEVSGYD	ENMNTIRTYQ	60
	VCNVFESSQN	NWLRTKFI RR	RGAHRIHVEM	KFSVRDCSSI	PSVPGSCKET	FNLYYYEADF	120
	DSATKTFPNW	MENPWVKVDT	IAADESFSQV	DLGGRVMKIN	TEVRSFGPVS	RSGFYLAQD	180
70	YGGQMSLI AV	RVFYRKCPRI	IQNGAIFQET	LSGAESTSLV	AARGSCIANA	EEVDVPIKLY	240
	CNGDGEWLVP	IGRCMCKAGF	EAVENGTVCR	GCPSGTFRAN	QGDEACTHCP	INSRTTSEGA	300
	TNCVCNRGGY	RADLDPLDMP	CTTIPSA PQA	VISSVNETSL	MLEWTPPRDS	GGREDLVYNI	360
	ICKSCGSGRG	ACTROGDNVQ	YAPRQLGLTE	PRIYISDLLA	HTQYTFEIQ A	VNGVTQDSPF	420
	SPQFASVNIT	TIQAAPS AVS	IMHQVSR TVD	SITLSWSQPD	QPNQGVILDYE	LQYYEKELSE	480
75	YNATAIKSPT	NTVTVQGLKA	GAIVVFQVRA	RTVAGYGRYS	GKMYFQMTME	AEYQTSIQEK	540
	LPLIIGSSAA	GLVFLLI AVV	IAIVCNRRRG	FERADSEYTD	KLQHYTSGHM	TPGMKIYIDP	600
	PTYEDPNEAV	REFAKEIDIS	CVKIEQVIGA	GEFGEVCSGH	LKLPKREIF	VAIKTLKSGY	660
	TEKQRDRPLS	ESASIMQFDH	PNVHLEGVV	TKSTFVMIIT	EFMENGSLDS	FLRQNDGQFT	720
	VIQLVGMRLRG	IAAGMKYLDL	MNVVHRDLAA	RNILVNSNLV	CKVSDGFLSR	FLEDDTSDPT	780
80	YTSALGGKIP	IRWTAPEAIQ	YRKFTSASDV	WSYGIWMEV	MSYGERPYND	MTNQDVINAI	840
	EQDYRLPPPM	DCPSALHQLM	LDCWQKDRNH	RPKFGQIVNT	LDKMIRNPNS	LKAMAPLSSG	900
	INLPDLLRTI	PDYTSFNTVD	EWLEAIKMGQ	YKESFANAGF	TSFDVVSQMM	MEDILRVGLT	960
	LAGHQKKILN	SIQVMRAQMN	QIQSVEV				987

Seq ID NO: C246 Protein Sequence

Protein Accession #: NP_114148.1

5 MDARRVPQKD LRVKKNLKKF RYVKLISMET SSSDDSDSCS FASDNFANTR LQSVREGCRT 60
 RSQCRHSGPL RVAMKFPARS TRGATNKKAE SRQPSNSVT DSNSDSEDES GMPLEKRAL 120
 NIKQNKAMLA KLMSLESEFP GSFRGRHPLP GSDSQSRRPR RRTFPGVASR RNPERRARPL 180
 TRSRSRILGS LDALPMEESE EEDKYMLVRK RKTVDGYMNE DDLPRSSRSR SSVTLPHIIR 240
 PVEEITEGGV GERLQQFSKR RYITVHWALL VINAVRRLLI PKQTAETQTA GAFEASSVAP 300
 10 AFETVMVKRS GMLCWIRTGI ARLVEESATA VSAGSEMDGV RLGSLCI 347

Seq ID NO: C247 Protein Sequence
Protein Accession #: NP_036577.1

15 MENPSPAAL GKALCALLLA TLGAAGQPLG GESICSARAP AKYSITITGK WSQTAFPKQY 60
 PLFRPPAAL SLLGAHSSD YSMWRKNQYV SNGLRDFAEER GEAWALMKEI EAAGEALQSV 120
 HAVFSAPAVP SGTGQTSDEL EVQRHSLVS PVVRIVPSPD WFGVDSLDL CDGDRWREQA 180
 20 ALDLYPYDAG TDSGTFSSP NFATIPQDTV TEITSSSPSH PANSFYFRL KALPPIARVT 240
 LVRLRQSPRA FIPPAVLPS RDNEIVDSAS VPETPLDCEV SLWSSWGLCG GHCGRLGTSK 300
 RTRYVRVQPA NNGSPCELE EAECEVPDNC V 331

Seq ID NO: C248 Protein Sequence
Protein Accession #: NP_063947.1

25 MLQDPDSQD LNSLDVKPLR KPRIPMETFR KVGIPIIIAL LSLASIIIVV VLIKVILDKY 60
 YFLCGQPLHF IPRKQLCDGE LDCPLGEDEE HCVKSPFEGP AVAVRLSKDR STLQVLD SAT 120
 GNWFSACFN FTEALAEATAC RQMGYSKPT FRAVEIGPDQ DLDVVEITEN SQELMRNSS 180
 GPCLSGSLVS LHLCLACGSL KTRPVVGEE ASVDSWFWQV SIQYDKQHC GGSILDPHWV 240
 30 LTAACHFRKH TDVFNWVRA GSKLGSFPS LAVAKIIIE FNPMPKOND IALMKLQFPL 300
 TFSGTVRPIC LPFFDEELTP ATPLWIIGWC PTKQNGGKMS DILLQASVQV IDSTRCNADD 360
 35 AYQGEVTEKM MCAIGPEGGV DTCQGDSSGP LMYQSDQMHV VGIVSWGYGC GGPSTPGVYT 420
 KVSAYLNWY NVWKAL 437

Seq ID NO: C249 Protein Sequence
Protein Accession #: NP_003036.1

40 MGCKVLLNIG QMLRRKVV D CSRRETRLSR CLNTFDLVAL GVGSTLGAGV YVLGAVARE 60
 NAGPAIVISF LIAALASVLA GLCYGEFGAR VPKTGSAYLY SVTVGELWA FITGNLILS 120
 45 YIIGTSSVAR AWSATFDEL GRPIGEFSRT HMTLNAPGVL AENPDIFAVI IILILTGLLT 180
 LGVKESAMVN KIFTCINVLV LGFIMVSGFV KGSVKNWQLT EEDFGNTSGR LCLNNDTKEG 240
 KPGVGGFMFP GFSGLVSGAA TCFYAFVGF D CIATTGEEVK NPQKAIPVGI VASLLICFIA 300
 YFGVSAALIT MPMFYCLDNN SPLPDAFKHV GWGAKYAVA VGLSCALSAS LLGSMFPMR 360
 50 VIYMAEDGL LFKFLANVND RTKTPIIATL ASGAVAAVMA FLFDLKDLDV LMSIGTLAY 420
 SLVAACVLVL RYQPEQPNLV YQMASTDEL DPADQNELAS TNDSQLGLFP EAMFSLKTI 480
 LSPKNMEPSK ISGLIVNIST SLIAVLIITF CIVTVLGREA LTKGALWAVP LLAGSALLCA 540
 VVTGVINRQP ESKTKLSFKV PFLPVLPILS IFVNVYLMQ LDQGIWVRFA VMMLIGFIY 600
 FGYGLWHSSE ASLDADQART PDGNLDQCK 629

Seq ID NO: C250 Protein Sequence
Protein Accession #: NP_002767.1

60 MRAPHLHLSA ASGARALAKL LPLMAQLWA AEAALLPQND TRLDPEAYGA PCARGSQPWQ 60
 VSLFNGLSFH CAGVLVDQSW VLTAACHGNK PLWARVGDH LLLQGEQLR RTRSVVHPK 120
 YHQSGPILP RRTDEHDLML LKLARFVVPV PRVRLQLPY RCAQPGDQCQ VAGWGTTAAR 180
 RVKYNKGLTC SSITILSPE CEVFYPGVVT NNMICAGLDR GQDPCQSDSG GPLVCDETLQ 240
 65 GILSWGVYPC GSAQHPAVYT QICKYMSWIN KVIRSN 276

Seq ID NO: C251 Protein Sequence
Protein Accession #: XP_095088.3

70 MTRAAATFPG RVSPASPARS TAGLPRAFLO SLRTLIDILD DWQRGCVHLR EIQLSWVEAR 60
 ELPSGVLEGL SQRRGPQPGA AVSRRRGGAV PRGARAVPER CAGTETRRGR RCGSLQRLGG 120
 GFRGCPADPC ARGEHRRHTI TSGVDCGLLK QMKELEQKE VLLQGLEMA QGRDWYQQQL 180
 75 QQVQERQRL GQSRASADFG AVGSFRPLGR LLPKVQEVAR WLGEELLAAC AGRALPTSSS 240
 GPCCSALTST SSPGWQQQII LMLKEQNRLL TQEVTEKSER ITQLEQKSAI IKQLFEARAL 300
 SQDGGSLSPA GPHEPLTRF RLPVLTWAGA LLSPHSPQLL LPLSADSGGP LHLPDPTWFP 360
 AVLLNVVSPG KRTAHARLHF HORPAEGAWQ LGCGAEAAPE TCGTLPHFES HKTTCFEDSL 420
 GGPCQEGDR SWSHLGAADF VAPAVAKVTP NREDAAGSRH GDICPLCPKG LLTFRDIAIE 480
 80 FSLAEWQCLD HAQNLRYRDV MLENYRNLFPS LGMTVSKPDL IACLEQNKEP QNIKRNEMAA 540
 RHEVTCSEHN QDLQPEQSIK DSLQKVIPT YGKCGHENLQ LKCKCKRVDE CEVHKGGYND 600
 LNQCLSNQON KIFQTHKCVK VFSKPSNSNR HNARYTGKKH LKCKKYGKSP CMFSLHNQHQ 660
 IHTKEKSYK CEECGKSPNH SSGTTHKRI LTGEKPYRCE ECGKAFRWP NSLTRHKRIHT 720
 GEKPYACEC GQAFRRSSTL TNHKKRIHTGE RPYKCECGK AFSVSSALIY HKRIHTGEK 780
 YTCCEGQKAF NCSSTLTKTHK IIHTGEKPYT CEECGRTFNC SSTVKAHKRI HTGEKPYKCE 840

5 ECDKAFKWSH SLAKHKIHT GEKPYKCSDS KALAKSSEVQ KVSXGSGENG IRVHKKKETQ 900
GWLVRNQNEN RTOLFQIRAA VRPNRDPSPWG QQEGSLTDPI QRKEEPLQN HYDHQNALED 960
QNTGTVGGLL TFRDVIIEFS LEEWQCLDHA QQNLRYDVML ENYRNVLVLG IAVSKPDLIT 1020
CLEQNKPEPN IKRNMVTKH PDLPELGIK DSLQKVIPRR YGKSGHDNLQ VKTCKSMGEC 1080
10 EVQKGGCNEV NQCLSTTQNK IPQTHKCVKV FGKFSNSNRH KTRHTGKKHF KCKYKGSFC 1140
MVSQHLHQH1 IHTRENSYQC BECGKPFNCS STLSKHKRIH TGEKPYRCEE CGKAPTWSST 1200
LTKHRRHTG EKPYTCEECG QAFSRSSSTA NHRKRIHTGK PYTCEECGKA FSLSSSLTYH 1260
KRIHTGEKPY TCEECGKAFN CSSTLKKHKI IHTGEKPYKC KEGKAPAFS STLNTHKRIH 1320
TGEEPYKCEE CDKAFKWSH LANHKSMTG EKPYKCE 1357

Seq ID NO: C252 Protein Sequence
Protein Accession #: NP_114433.1

15 1 11 21 31 41 51
MASRSMRLLL LLSCLAKTGV LGDIIMRPSG APGWFYHKN CYGYFRKLRL WSDAELECCS 60
YNGAHLASI LSLKASTIA EYISGYQRSQ PIWIGLHDPQ KRQQWQWIDG AMYLYRSWSG 120
KSMGNGKICA EMSSNNFLT WSSNECNKRQ HFLCKYRP 158

20 Seq ID NO: C253 Protein Sequence
Protein Accession #: XP_051860.2

25 1 11 21 31 41 51
MDGVNLSTEV VYKKGQDYRF ACYDRGRACR SYRVRFLCGK FVRPKLTVTI DTNVNSTILN 60
LEDNVQSWKP GDTLVIASDT YSMYQAEFQ VLPGRSCAPN QVKVAGKPMY LHIGEEIDGV 120
DMRAEVGLLS RNIIIVMGEME DKCYPYRNHI CNFFDFDTFG GHIFKALGFK AAHLGEGTELK 180
HMGQQLVQYQ PIHFLAGDV DERGGYDPPT YIRDLSTHHT FSRCVTVHGS NGLLIKDVVG 240
30 YNSLGHCFPT EDGPEERNTF DHCLGLLVKS GTLLPSDRDS KMCKMITGDS YPGYIPKPRQ 300
DCNAVSTFWM ANPNMNLINC AAGSSEETGF WFIHHVPTG PSVGMYSPPY SEHIPLGKPY 360
NNRAHNSYRA GMIDNGVKT TEASAKDKRP FLSTIISARYS PHQDADPLKP REPALIRHFI 420
AYKNQDHGAW LRGGDVWLDL CRFADNGIGL TLASGGTFPY DDGSKQEIKN SLFVGESGNV 480
GTMDMDNRW GPGLDHSGR TLPICQNPFI RGIQLYDGPI NIQNTCTFRKP VALEGRHTSA 540
35 LAFRLNNAWQ SCPHNNVTGI APEDVPITSR VFFGEPGPFWE NQDMDGDKT SVFHDVDGVS 600
SEYPSGLYTK NDNLVVRHPD CINVPDWRGA ICSGCAQMY IQAYKTSNLR MKIINKDFPS 660
HPLYLEGALT RSTHYQQYQF VVTLLQKGYTI HWDQTAPAEI AIWLINFNKG DWIRVGLCPY 720
RGTTFSILSD VHNRLKQTS KTGVPVVRTLQ MDKVEQSYPG RSHYWDSDS GLLFLKKAQ 780
NEREKAPFCS MKGCEBRIK ALIPKNAGVS DCTATAYPKF TERAVVDVPM PKKLFQSOLK 840
40 TKDHFLEVKM ESSKQHFPHL WNDPAYIEVD GKYPSSSEDG IQVVVIDGNQ GRVVSHTSFR 900
NSILQGIPIW LFNYVATIPD NSIVLMASKG RYVSRGPWTR VLEKLGADRG LKLKEQMAFV 960
GFGSGFRPW VTLDTEDHKA KIFQVVPVPV VKKKKL 996

Seq ID NO: C254 Protein Sequence
Protein Accession #: NP_055188.1

45 1 11 21 31 41 51
MTALSSENCN FQYQLRQTNQ PLDVNYLLFL IILGKILLNI LTLGMRRKNT CQNFMEYFCI 60
SLAFVDLLL L VNISILLYFR DFLVLSIRPT KYHICLFTQI ISFTYGLHY PVFLTACIDY 120
50 CLNFSKTTKL SFKQKLFYF FTVILWISV LAYVLGDPFI YQSLKAQNAV SRHCPFYVSI 180
QSYWLSFFMW MILEVAFITC WEEVTTLVQA IRTSYMNET ILYFPFSSHS SYTVRSKIFP 240
LSKLIVCFLS TWLPPVLLQV IIVLLKVQIP AVIEMNIPWL YFVNSFLIAT VYWFNCHKLN 300
LKDIGLPLDP FVNMKCCFIP LTIPNLEQIE KPISIMIC 338

55 Seq ID NO: C255 Protein Sequence
Protein Accession #: Eos sequence

60 1 11 21 31 41 51
MALVLGSLLL LGLCGNSPFG QGPSSTDAPK AMNYELPATN YETQDSHKAG PIGILFELVH 60
IFLYVQPRD FPEDTLRKPL QKAYESKIDY DKIVVYEAGI ILCCVLGLLF IILMPLVGYP 120
FCMCRCCNKC GGMHQKQKE NGPFLKCFPA ISLLVICIII SIGIFYGFVA NHQVTRIKR 180
SRKLADSNK ATAIKETKEA LENMNSTLKS LHQQSTQLSS SLTSVKTSLR SSLNDPLCLV 240
65 IPVLDEIKSM ATAIKETKEA LENMNSTLKS LHQQSTQLSS SLTSVKTSLR SSLNDPLCLV 300
HPSSETCNIS RLSSLQNLNS PELRQLPPVD ABLDNVNNVL RTDLGLGVQ GYQSLNDIPD 360
RVQRQTTTVV AGIKRVLNSI GSDIDNVQR LPIQDILSAF SVYVNNTEY IHRNLPLEE 420
YDSYWLGLL VICSLTLIV IFYLLGLLGG VCGYDREATP TTRGCVSNTG GVFLMVGVGL 480
SFLFCWILMI IIVLTFVFGA NVEKLICEPY TSKELFRVLD TPYLLNEDWE YLSGKLPNK 540
70 SKMKLTFEQV YSDCKNNGRT YGTLHLQNSF NISEHLNINE HTGSISSELE SLKVNLIWFL 600
LGAAGRKNLQ DPAAACGIDRM NYDSYLAQTG KSPAGVNLIS PAYDLBAKAN SLPPGNLRNS 660
LKRDAQTIKT IQQRVLPPIE QSLSTLYQSV KILQRTGNGL LERVTRILAS LDPAQNFTN 720
NTSSVLIBET KYGRITIGY FEHYLQWIEF SISEKVASCK FVATALDTAV DVFLCSYIID 780
75 PLNLFWFGIG KATVFLPAL IPAVKLAKY RMDSESDVD DVETIPMKM ENGNNGYHKD 840
HYVGIHNPVM TSPSQH 856

Seq ID NO: C256 Protein Sequence
Protein Accession #: NP_149038.1

80 1 11 21 31 41 51
MKAIHLTL L ALLSVNTATN QGNSADAVTT TETATSGPTV AAADTTETNF PETASTTANT 60
PSFPTATSPA PPIISTHSSS TIPTAPPII STHSSTIPI PTAADSEST NVNLSATSDI 120
ITASSPNDGL ITMVPSETQS NNEMSPITED NQSSGPPTGT ALLETSTLNS TGFSNPQDD 180
PCADNSLCVK LRHTSFCLCL BGYIYNSSTC KKGKVPFGKI SVTVSETFDP EEKHSMAQD 240

5 LHSEITSLFK DVFGTSVYQ TVILTVSTSL SPRSEMRADD KFNVTIIVTI LAETTSNDEK 300
 TVTEKINKAI RSSSSNFINY DLTLRCDYYG CNQTADDCLN GLACDCKSDL QRPNPQSPFC 360
 VASSLKPCDA CNAQHKQCLI KKSOGAPECA CVPGYQEDAN GNCQKCAFY SGLDCKDKFQ 420
 LILITVGTIA GIVILSMIIA LIVTARSNNK TGHIEENLI DEDFQNLKLR STGFTNLGAE 480
 GSVFPKVRIT ASRDSQMNP YSRHSSMPRP DY 512

Seq ID NO: C257 Protein Sequence
 Protein Accession #: NP_001423.1

10 1 11 21 31 41 51
 | | | | |
 MTAGRRMEML CAGRVPALLL CLGFHLLQAV LSTTVIPSCI PGESSDNCTA LVQTEDNPRV 60
 AQVSITKCSS DMNGYCLHGG CIYLVDMSON YCRCEVGYTG VRCEHFFLTV HQPLSKEYVA 120
 LTVILILFL ITVVGSTYYP CRWYRNKRSK EPKKEYERTV SGDPELPQV 169

Seq ID NO: C258 Protein Sequence
 Protein Accession #: AAC63902.1

20 1 11 21 31 41 51
 | | | | |
 MDRSKENCIS GPVKATAPVG GPKRVLVTTQ IPCQNPLPVN SQQAQRVLCP SNSSQRVPLQ 60
 AQKLVSSHPP VQNQKQKQLQ ATSVPHVPSR PLNNTQKSKQ PLPSAPENNP EELASKQKN 120
 EESKRGWAL EDFEIGRPLG KGFQGNVYLA REKQSKFILA LKVLFAQLE KAGVEHQLR 180
 25 EVEIQSHLH PNILRLYGYP HDATRVYLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL 240
 ANALSYCHSK RVIHREDIKPE NLLLSGAGEL KIADFGWSVH APSSRRITLC GTLDVLPPEM 300
 IEGRMHDEKV DLWSLGLVLCY EFLVGKPFPE ANTYQETYKR ISRVEFTFPD FVTEGARDLI 360
 SRLKHNPSQ RPLMLREVLEH PWITANSSKP SNCQNKESAS KQS 403

Seq ID NO: C259 Protein Sequence
 Protein Accession #: NP_037504.1

30 1 11 21 31 41 51
 | | | | |
 MSRTAYTVGA LLLLLGTLTP AABEGKKKGSQ GAIPPPDKAQ HNDSEQTQSP QQPGSRNRGR 60
 GQGRGTAMPB EVLESSQEA LHVTERKYLK RDWCKTQPLK QTIHEGCNS RTIINRFYCYG 120
 QCNSEFYIPRH IRKEEGSPQS CSFCKPKKFT TMMVTLCNCP LQPPTKKRRV TRVKQCRGIS 180
 IDLD 184

Seq ID NO: C260 Protein Sequence
 Protein Accession #: Eos sequence

40 1 11 21 31 41 51
 | | | | |
 MKVGVWLWIS FFTFTDGHGG FLGKNDGIKT KKEILVNKKK HLGPFVEYQL LLQVTYRDSK 60
 45 EKRDRLNFKL LKPLPLWNSH GLIRIIRAKA TTDONSNGV LQCTCEDSYT WFPFSCLDPO 120
 NCYLHTAGAL PSCECHLNNL SQSVNFCERT KINGTFKINE RPTNDLLNSS SAIYSKYANG 180
 IEIQKKAYE RIQGFESVQV TQFRNGSIVA GYEVVGSSEA SELLSAIEHV AEKARTALHK 240
 LFPLEDGSFR VFGKAQNDI VFGFGSKDDE YTLPCSSGYR GNITAKCESS GWQVIRETCV 300
 50 LSLLEELNKN FFMIVGNATE AAVSSFVQNL SVIIRQNPST TVGNLASVVS ILSNISSLSL 360
 ASHFRVSNST MEDVISIADN ILNSASVTNW TVLLREEKYA SRLLLETLEN ISTLVPTAL 420
 PLNPSRKPID WKGIPVNKSQ LKRGYSYQIK MCPQNTSIPI RGRVLIGSDQ FQRLPETII 480
 SMASLTGNI LFVSKNGNAQ VNGPVISTVI QNYSINEVFL PFKIESINLS QPHCVWFDFS 540
 HLQWMDAGCH LVNETQDIVT CQCTHLTSFS ILMSPFVPSI IFPVVKNITY VGLGISIGSL 600
 55 ILCLIEALP WKQIKKSQTS HTRICMVNI ALSLLIADVW FIVGATVDTT VNPBGVCTAA 660
 VFFTFPFYLS LFFWMLMGI LLAYRIILVF HMAQHLMA VGFCLGYGCP LIISVITIAV 720
 TQPSNTYKRG DVCWLNWSNG SKPELLAFVVP ALAIVAVNFV VVLLVLTKLM RPTVGBRLSR 780
 DDKATIRVG KSLILLTPLL GLTNWFGIGT IVDSONLAHW VIFALNFAQ GPFILCFGIL 840
 LDKLRQLLP NKLSALSWSK QTEKQNSDL SAKPKFSKPF NPLQNKHYA FSHTGDSND 900
 60 IMLTQFVNSE 910

Seq ID NO: C261 Protein Sequence
 Protein Accession #: NP_000575.1

65 1 11 21 31 41 51
 | | | | |
 MTSKLAVALL AAFLISAALC EGAVLPRSAK ELRCQCIKTY SKPFHPKFIK ELRVIESGPH 60
 CANTEIIVKL SDGRELCLDP KENWVQRVVE KFLKRAENS 99

Seq ID NO: C262 Protein Sequence
 Protein Accession #: NP_005594.1

70 1 11 21 31 41 51
 | | | | |
 MSTERDSETT FDEDSQPNDE VVPYSDDETE DELDDQGSV EPEQNRVNRE AEENREPPFRK 60
 75 ECTWQVKAND RKYHEQPHFM NTKFLCIKES KYANNAIKTY KYNAFTFIPM NLPEQFKRAA 120
 NLYFLALLIL QAVPQISTLA WYTTLVPLLV VLGVTAKIDL VDDVARHKMD KEINNRTCEV 180
 IKDGRFKVAK WKEIQVGDVI RLKKNDFVPA DILLSSSEP NSLCYVETAE LDGETNLKFK 240
 MSLEITDQYL QREDTLATFD GFICEEPPNN RLDKFTGTLF WRNTSPPLDA DKILLRGCVI 300
 80 RNTDFCHGLV IFAGADTKIM KNSGKTRFKR TKIDYLMNYM VYTIFFVLLI LSAGLAIGHA 360
 YWEAQVGNSS WLYYDGEDDT PSYRGFLIFW GYIIVLNTMV PISLYVSVEV IRLQSHFIN 420
 WDLQMYAEK DTPAKARTTT LNEQLGQIHY IFSDKTGTLT QNIMTFKKCC INQIYGDHR 480
 DASQNNHMKI EQVDFSWNTY ADGKLAFYDH YLIEQIQSGK EPEVRQFFFL LAVCHTVMVD 540
 RTDGLINQVA ASPDEGALVN AARNFGPAFL ARTQNTITIS ELGTERTYNV LAILDENSDR 600
 KRMSIIVRTP EGNIKLYCKG ADTVIYERLH RMNPTKQBTQ DALDIFANET LRTLCLCYKE 660

5 IEEKEFTEMN KKFMAASVAS TNRDEALDKV YEEIEKDLIL LGATAIEDKL QDGVPEITISK 720
 LAKADIKIYW LTGDDKETA E NIGFACELLT EDITTICYGED INSLHARME NQRNRGGVYA 780
 KFAPPVQESP FPPGNGRRLI ITGSLWNEIL LEKTKRINKI LKLFKPPRTEE ERRMRQTQSKR 840
 RLEAKKEQRQ KNFVLDACEC SAVICCRVTP KQKAMVVVDLV KRYKKAITLA IGDGANDVNM 900
 IKTAHIGVGI SGGQGMQAVM SSDYSFAQFR YLQRLLLVHG RWSYIRMCKF LRYFFYKNFA 960
 FTLVHFWSYF FNGYSAQATY EDWFITLYNV LYTSLPVLLM GLLDQDVSDK LSLRFPGLYI 1020
 VGQRDLLFNY KRFFVSLHNG VLTSMILFFI PLGAYLQTVG QDGEAPSDYQ SFAVTIASAL 1080
 VITVNFQIGL DTSYWTFFNA FSIFGSIALY FGIMFDFHSA GIHVLFPSAF QFTGTASNAL 1140
 10 RQPYIWLTI LTVAVCLLPV VAIRFLSMTI WPSSEDKIQK HRKRLKAEEQ WQRRQVQVFR 1200
 GVSTRSAYA FSHQRGYADL ISSGRSIRKK RSLDAIVAD GTAYRRRTGD S 1251

Seq ID NO: C263 Protein Sequence
 Protein Accession #: XM_044533

15 1 11 21 31 41 51
 | | | | |
 MLRTAMGLRS WLAAPWGALP PRPPLLLLLL LLLLLQPPPP TWALSPRISL PLGSEERPFL 60
 RFEAEHISNY TALLLSRDGR TLYVGAREAL FALSSNLSFL PGGEYQELLW GADAEEKKQC 120
 20 SFKGDPPORD CONYIKILLP LSGSHLFTCG TAAFSPMCTY INMENFTLAR DEKGNVLLED 180
 GKRCPCFPDN FKSTALVVDG ELYTGTVSSF QGNDFPAIRS QSLRPTKTES SINWLQDPAF 240
 VASAYIPESL GSLQGGDDKI YFFPSETGQE FEFSENTIVS RIARICKGDE GSERVLQQRW 300
 TSFLKAQLLC SRPDDGFPFN VLQDVFTLSP SPQDWRDTLF YGVFTSQWHR GTTEGSAVCV 360
 FTMKDVQRVF SGLYKEVNRE TQQWYTVTHP VPTPRPGACI TNSARERKIN SSLQLPDRVL 420
 25 NFKDHFHMD GOVRSRMLLL QPQARYQVRA VHRVPLGHHT YDVLFLGTGD GRLLHKAVSVG 480
 PRVHIIEELQ IFSSGQPVON LLLDTHRGLL YAASHSGVVO VPMANCSLYR SCGDCLLARD 540
 PYCAWSGSSC KHVSLYQPOL ATRPWIQDIE GASAKDLCSA SSVVSPSPVP TGEKPCQVQV 600
 FQNTVNTLA CPILSNLART LWLNGAPVN ASASCHVLPT GDLLLVGTQQ LGEFQCWSLE 660
 EGFQQLVASV GPEVVEDGVA DQDEGGSVF VIISTSRVSA PAGGKASWGA DRSYWKEFLV 720
 30 MCTLFVLAVL LPVLFLLYRH RNSMKVFLKQ GECASVHPKT CPVVLPPETR PLNGLGPPST 780
 PLDHRYGQSL SDSPGSRVFP TESEKRPLSI QDSFVEVSPV CPRPRVLGSG EIRDSV 837

Seq ID NO: C264 Protein Sequence
 Protein Accession #: NP_008950.1

35 1 11 21 31 41 51
 | | | | |
 MASQNRDPAA TSVAAARKGA EPSGGAARGP VGKRLQQLM TLMSGDKGI SAPPESDNLF 60
 KVVGTTHGAA GTVVEDLRYK LSLFFPSGYP YNAPTVMKLT PCYHFNVDQ GNICLDILKE 120
 40 KWSALYDVRT ILLSIQSLG EPNIDSPLNT HAAELWKNPT AFKKYLQETY SKQVTSQEP 179

Seq ID NO: C265 Protein Sequence
 Protein Accession #: NP_055399.1

45 1 11 21 31 41 51
 | | | | |
 MGRGWGFLFG LLGAVVLLSS GHGEEQPPET AAQRFCQVVS GYLDDCTCDV ETIDRFNNYR 60
 LPPRLQKLLS SDYFRYKVN LKRPCPFWD ISQCGRRDCA VKPCQSDVP DGIKSASYKY 120
 SEENNLIER CEQAERLGA DESLERTQK AVLQWTKHDD SSDNPFCEADD IQSPEAEYVD 180
 50 LLLNPERYTG YKGPDAWKIN NVIYEENCFK PQTIKRPLNP LASGQGTSEE NTFYSWLEGL 240
 CVERKAPYRL ISGLHASINV HLSARYLLQE TWLEKKWGHN ITEPQQRFDG ILTEGEGPRR 300
 LKNLYFLYLI ELRALSKVLP PFERPDQLF TGNKIQDEEN KMLLEILHE IKSPPLHFDE 360
 NSFPAGDKKE AHKLKEDFRL HFRNISRIMD CVGCTFKRLW GKLTQQLGT ALKILFSEKL 420
 IANPESGSPS YEFHLTRQEI VSLPNAFGRI STSVKELENF RNLLQNIH 468

55 Seq ID NO: C266 Protein Sequence
 Protein Accession #: NP_002879.1

60 1 11 21 31 41 51
 | | | | |
 MQPRRRLQPA FWSGPRGPRP TAPLLALLL LAPVAAPAGS GGFDDPGQPQ DAGVPRRLQ 60
 QKARAALHFF NFRSGSPSAL RVLAEVQGR AWINPKGCK VHVVFSTERY NPESLLQEGE 120
 GRLGKCSARV FFKNQKPRPT INVTCTRLIE KKKRQQEDYL LYKQMKQLKN PLEIVSIPDN 180
 HGHDPSLRL IWDLAPLGSS YVMWEMTTQV SHYYLAQLTS VRQWVRKT 228

65 Seq ID NO: C267 Protein Sequence
 Protein Accession #: NP_005400.1

70 1 11 21 31 41 51
 | | | | |
 MSVKGMALAL AVILCATVVQ GPFMPKRGRC LCIGPGVKAV KVADIEKASI MYPSNNCDKI 60
 EVIITLKENK GQRCLNPKSK QARLIKKVE RKNF 94

75 Seq ID NO: C268 Protein Sequence
 Protein Accession #: FGENESH predicted

80 1 11 21 31 41 51
 | | | | |
 MLRQVLRRLG QSFCHRLGLC VSRHPVFFLT VPAVLTITFG LSALNRFQPE GDLERLVAPS 60
 HSLAKIERSL ASSLEPLDQS KSQLYSDLHT PGRYGRVILL SPTGDNILLQ AEGILQTHRA 120
 VLEMKVNHKG YNYTFSHLGV LRKQDKKCVL DDIISVLEDL RQAAVSNKTT ARVQVRYFNT 180
 KLVKCSFCML LPIKEAALHF LP 202

Seq ID NO: C269 Protein Sequence
 Protein Accession #: NP_002429.1

1 11 21 31 41 51
 5 MRLPLLLVFA SVIPGAVLLL DTRQFLIYNE DHKRCVDAVS PSAVQTAACN QDAESQKFRW 60
 VSESQIMQVA FKLCLGVPSK TDWVAITLYA CDSKSEFQKW ECKNDTLGI KGEDLFFNYG 120
 NRQERNIMLY KGSGLWSRWK IYGTDTNLC S RGEAMYTLG GNANGATCAF PFKFENKWYA 180
 DCTSAGRSDG WLWCGTTTIDY DTDKLFYGYCP LKFEGBSBLW NKDPLTSVSY QINSKSALTW 240
 HQARKSCQQQ NAELLSITEI HEQTYLTGLT SSLTSGLWIG LNSLSFNSGW QWSDRSPFRY 300
 10 LNLWPGSPSA EPKSKCVSLN PGKNARKWENL ECVQKLQYIC KKGNTTLNSF VIPSESDVPT 360
 HCPSQWHPYA GHCKIHRDE KKIQRDALTT CRKEGGDLTS IHTIEELDFI ISQLGYEPND 420
 ELWIGLNDIK IQMYFEWSDG TPVTFTKWL R GEPHENNRQ EDCVVMKGKD GYWADRGC EW 480
 PLGYICKMKS RSQGPPIVEV EKGCRKGWK HMFYCYMIGH TLSTFAEANG TCNNENAYLT 540
 TIEDRYEQAF LTSFVGLRPE KYFWTGLSDI QTKGTFWTI EEEVRFTHWN SDMPGRKPGC 600
 15 VAMRTGIAGG LWDVLKCEK AKFVCKHWAE GVTHPPKPTT TPEKCPEDW GASSRTSLCF 660
 KLYAKGKHEK KTFWESRDFC RALGGLASI NNKEEQQTW RLITASGSYH KLFWLGLTYG 720
 SPSEGTWSD GPSVSYENWA YGEPNNYQNV EYCGELKGD TMSWNDINCE HLNWICQIQ 780
 KGQTPKPEPT PAPQDNPPVT EDGWVIYKDY QYFYSKEKET MDNARAFCKR NFGDLVSIQS 840
 ESEKPLMKNY VNNDQAQSAY FIGLLISLDK KFAWMDGSKV DYVSWATGEP NFANEDENCV 900
 20 TMYSNSGFWN DINCVPNAF ICQRHNSIN ATTVMPTMPS VPSGCKEGWN FYSNCKCFKIF 960
 GFMEERKNW QBARAKCIGF GGNLVSIQNE KEQAFLLTYH KDSTFSAWTG LNDVNSEHTF 1020
 LWTDRGTHYK TNWKGYPGPG RRSSLSYEDA DCVVIIGGAS NEAGKWMDDT CDSKRGYICQ 1080
 TRSDPSLTNP PATIQTDGFV KYGKSSYSLM RQKFQWHEAE TYCKLHNSLI ASILDPSYNA 1140
 FAWLQMETSN ERVWIALNSN LTDNQYTWTD KWRVRYTNWA ADEPKLKSAC VYLDLDGYWK 1200
 25 TAHCHESFFY LCKRSEIPA TEPPQLPGR PESDHTAWIP FHGHCYIES SYTRNWQAS 1260
 LECLRMGSSL VSIESAESS FLSYRVEPLK SKTNFWIGLF RNVBGTWLWI MNSPVSPVNW 1320
 NTGDPGGERN DCVALHASSY FWSNIHCSSY KGYICKRPKI IDAKPTHELL TTKADTRKMD 1380
 PSKPPSNVAG VVIVILLIL TGAGLAAYFF YKRRRVHLPO EGAFENTLYP NSQSSPGTSD 1440
 MKDLVGNIEQ NEHSVI 1456

30 Seq ID NO: C270 Protein Sequence
 Protein Accession #: Eos sequence

1 11 21 31 41 51
 35 MVLHWHCLW LPLFLSSRTQ KLPTRDEELF QMQIRDKAFF HDSSVIPDGA EISSYLFRDT 60
 PKRYFFVVEE DNTPLSVTVT PCDAPLEWKL SLQELPEDRS GEGSGDLEPL EQKQKQIINE 120
 BGTELSFYKG NDVBYFISS SPSGLYQLDL LSTEKDTHPK VYATTPESD QPYPELPYDP 180
 RVDVTSLGRT TVTLAWKPS P TASLLKQPIQ YCVVINKEHN FKSCLAVEAK LSADDAFMAA 240
 40 PKPLGLDFSP DFAHFGEPSD NSGKERSFOA KPSPKLGRHV YSRPKVDIQ ICIGNKNIPT 300
 VSDLKPDQY YFDVFFVNIN SNMSTAYGT PARTKEEAKQ KTVBLKDGKI TDVFKRKG 360
 KFLRFAPVSS HQKVTFFIHS CLDAVQIQVR RDGKLLSQN VEGIQQFQLR GKPKAKYLVR 420
 LKGNKKGASM LKILATRPRT KQSPFSLPED TRIKAFDKLR TCSSATVAVL GTQERNKFCI 480
 YKKEVDNRYN EDQKKREQNC CLGPDIRKKS EKVLCYFHS QNLQKAVTTE TIKGLQPGKS 540
 45 YLLDVVYIGH GGHSVKYQSK VVKTRKFC 568

Seq ID NO: C271 Protein Sequence
 Protein Accession #: AAH34229.1

1 11 21 31 41 51
 50 MEKVQLEFEN QEMEKKLQEP RSTRNKEKED RESSEYNYKS GKVGLVNGS YMMSQNKGNV 60
 VKFSAGVKVL KLLKEIQIEP VKPTVNYKMA NSSECEPKFI NGKVCQGCEN KAALLVCLLEC 120
 GEDYCSGCA NWHQKALKL HRTTLLQARS QILFNVLDA HQFIKDVND EPKEENNSTK 180
 55 BTKIQHKPK SVLLQRSSSE VEITTMKRAQ RTKPKRSLLC EGSPDEEASA QSPQEVLSQM 240
 RTGNHNDNKK QNLHAAVKDS LBECEVQTNL KIWRREPLNIE LKEDILSYME KLWLKHKHRT 300
 PQEQLFKCYQ TRSHIMKPL VMHSVLKMKT MKIVMVRPPK YNTQLFYCQ 349

Seq ID NO: C272 Protein Sequence
 Protein Accession #: NP_078963.1

1 11 21 31 41 51
 60 MEKLWLKHR RTPQEQLFKM LSDTFPHPE TTGDAQCSQN ENDESDGEE TKVQHTALLL 60
 PVETINIERP EPSLKIVELD DTYEEFEFEA ENIVPYVKVL ADADSQRSCA FHDQCKNSFP 120
 65 YENGHQHVV FDKGRDFLN LCLRNSSTYY KDNKSGTSEN TDFDNIVDPD VYSSDIEKIE 180
 ESTSFERNLK EKNIGLESNQ KSDDSCVSLE SKDTLLGRDL EKAPIEEKLS QDIKESLELS 240
 NLYKRPSPFE SKTTKSSLLL QEIACRSKPI TKQYQGLERF FIFDTNERLN LLPSHRLECN 300
 NSSTRITLAE DREWIPDHSI SEYADNAIVL GVLQGAQSPS SSRKQKMGQ KSQRPSTANF 360
 70 PLSNSVKESS SCLSSSHPRS RSAAAQ999R AAGEISEIEY IDITDQNELS LDDTTDQHTL 420
 DNLEKELQVL RSLADTSEKL YSLTSEEFDP FSSQSLNISQ ISTDPLKTSR VRGPCGVEEL 480
 SCSGRDTKIY SLLSLSESST DBEEEDFLNK QHVITLPWSK ST 522

Seq ID NO: C273 Protein Sequence
 Protein Accession #: NP_005399.1

1 11 21 31 41 51
 75 MKVSAVLLCL LLMTAANFPQ GLAQPDAVNV PSTCCFTFSS KKISLQRLKS YVITTSRCPO 60
 80 KAVIFRTKLG KECADPKKEK WVQNYMKHLG RKAHTLKT 98

Seq ID NO: C274 Protein Sequence
 Protein Accession #: BAC05158.1

1 11 21 31 41 51

15 Seq ID NO: C275 Protein Sequence
Protein Accession #: AAA60212.1

Seq ID NO: C276 Protein Sequence
Protein Accession #: NP_631911.1

Seq ID NO: C277 Protein Sequence
Protein Accession #: NP_473364.1

45 Seq ID NO: C278 Protein Sequence
Protein Accession #: FGENESH predicted

Seq ID NO: C279 Protein Sequence
Protein Accession #: XP_168571.1

Seq ID NO: C280 Protein Sequence
Protein Accession #: NP_005257.

1 11 21 31 41 51
| | | | |
MGDWSPLGNF LEEVHKHSTV VGKVLVLTFL IFRMLVLGTA AESSWGDEQA DFRCDTIQPG 60
QNVCYDQAF PISHIRYWL QIIPVSTPSL VYMGHAMTV RMQEKRLRE AERAKEVRGS 120

GSYEYPVAEK AELSCWEEGN GRIALQGTLL NTYVCSILIR TTMEVGFIIVG QYPIYGIFLT 180
 TLHVCRRSRSP PHPVNCYVSR PTERNVFIVF MLAVAALSLL LSLAELYHLG WKKIRQRFVK 240
 PRQHMAKQQL SGPSVGIVQS CTPPPDFNQ LENGPGGKFF NPFSNNMASQ QNTDNLVTEQ 300
 VRGQEQTPEG GFIVQRYGQK PEVPGVSPG HRLPHGYHSD KRRLSKASSK ARSDDLVS 358

Seq ID NO: C281 Protein Sequence
 Protein Accession #: NP_055274.2

1 11 21 31 41 51
 | | | | |
 10 MYLSICCCFL LWAPALTKN LNYSVPPEQG AGTVIGNIGR DARLQPGLEPP AERGGGGRSK 60
 SGSYRVLENS APHLLDVAD SGLLYTKQRI DRESLCRHNA KCQLSLEVFA NDKEICMIKV 120
 EIQDINDNAP SFSSDQIEMD ISENAAPGTR FPLTSAHDPD AGENGLRTRYL LTRDDHGLFG 180
 LDVKSRGDGT KPELVLQKA LDREQQNHHT LVLTAIDGGE PPRSATVQIN VKVIDSNDNS 240
 15 PVFEAPSYLV ELPENAPLGT VVIDLNATDA DEGPNGEVLY SFSSYVPRV RELFSIDPKT 300
 GLIRVKGMLD YEENGMLRID VQARDLGPNP IPAHCRTVK LIDRNDNAPS IGFVSVRQGA 360
 LSEAAPPPTV IALVRVTRD SGKNGQLQCR VLGGGGTGGG GGLGGPGGSV PFKLEENYDN 420
 FTTVTDRPL DRETQDEYNV TIVARDGGSP PLNSTKSFAI KILDENDNPP RFTKGLYVLQ 480
 20 VHENNIPGEY LGSVLAQDDP LGQNGTVSYS ILPSHIGDVS IYTVSVNPT NGAIYALRSF 540
 NFEQTKAFEF KVLAKDSGAP AHLESNATVR VTVDLVNDNA FVIVLEPTLN DTAELQVPRN 600
 AGLGLYVSTV RALDSDFGES GRLTYEIVDG NDDHLFEIDP SSGEIRTLHP FWEDVTPVVE 660
 LVVVKTRDGRK PTLSSAVAKLI IRSVSGSLPE GVPVRNGEQH HWDMSLPLIV TLSTISIIILL 720
 AMITIAVKK KRENKEIRTY NCRIAEYSHP LGGGGKGGK KINKNDIMLV QSEVEERNAM 780
 25 NVNVSVPSPS LATSPMYPDY QTRLPLSSPR SEVMYLPAS NNLTVPQCHA GCHTSFTQGQ 840
 TNASETPATR MSIIQTDFNP AEPNYMGRSQ QFVQSISVAP RLRTQKEPA 889

Seq ID NO: C282 Protein Sequence
 Protein Accession #: NP_005592.1

1 11 21 31 41 51
 | | | | |
 30 MELCRSLALL GGSGLMFLC IALSTDFWFE AVGPTHSAHS GLWPTGHGDI ISGYIHVTQT 60
 FSIAMVLWAL VSVSFLVLS FPLSFEPGSG PLVSTTAAPA AASIMVMAA VYTSEWDQP 120
 35 PHPQIQTFPS WSPYLGWVSA ILLCTGALS LGAHCGGPRP GYETL 165

Seq ID NO: C283 Protein Sequence
 Protein Accession #: NP_006424.2

1 11 21 31 41 51
 | | | | |
 40 MATWALLLLA AMLLGNPGLV FSRLSPEYD LARAHLEDEE KSCPCLAQEG PQGDLITKTQ 60
 ELGRDYRTCL TIVQKLKMMV DKPTORSVSN AATRVCTGR SRWRDVCNRF MRRYQSRVTQ 120
 GLVAGETAQQ ICEDLRLCIP STGFL 145

Seq ID NO: C284 Protein Sequence
 Protein Accession #: NP_005594.1

1 11 21 31 41 51
 | | | | |
 50 MKVSAALAV ILIATLALCAP ASAPYSDDT TPCCFAYIAR PLPRAHIKEY FYTSGKCSNP 60
 AVVFVTRKNR QVCANPEKKV VREYINSLEM S 91

Seq ID NO: C285 Protein Sequence
 Protein Accession #: NP_071437.1

1 11 21 31 41 51
 | | | | |
 60 MAPGRAVAGL LLLAAAGLGG VAEQPGGLAFS EDVLSVPGAN LSLSAALQIH LLEQMGAAASR 60
 VGVPEPGLHL FNQCLTAEI FSLHGFSNAT QITSSKFSVI CPAVLQQLNF HPCEDRPKHK 120
 TRPSHSEVWG YGFLSVTIIN LASLLGLILT PLIKKSYFPK ILTPFVGLAI GTLFSNAIFQ 180
 LIPEAFGDFP KVDYSVEKAV AVFGGFYLLF FFERMLKMLL KTYGQNGHTH FGNDNFPGPQE 240
 KTHQPKALPA INGVTCYANP AVTEANGHIH FDNVSVVSLQ DGKKEPSSCT CLKGPKLSEI 300
 65 GTIANWITLC DALHNFIDGL AIGASCTLSL LQGLSTSIAT LCBEFPHELG DFVILLNAGM 360
 STRQALLNFN LSACSCYVGL AFGILVGNPF APNIIFALAG GMFLYISLAD MFPFEMNDMLR 420
 EKVTRGRKTF TFFMIQNAAGM LTGPTAILLI TLYAGEIELE 460

Seq ID NO: C286 Protein Sequence
 Protein Accession #: NP_004175.1

1 11 21 31 41 51
 | | | | |
 75 MPNSEPASLL ELFNSIATQG ELVRSCLKAGN ASKDEIDSAV KMLVSLKMSY KAAAGEDYKA 60
 DCPGPNPAPT SNHGPDATEA EEDFVDPWTV QTSSAKGIDY DKLVIRFGSS KIDKELINRI 120
 ERATGQRPHH FLRRGIFFSH RDMNQVLDAY ENKKPFYLYT GRGPSSEAMH VGHLPFFIPT 180
 KWLQDVFNVP LVIQMTDDEK YLWKDLTLDQ AYGDVAENAK DIIACGFDIN KTFIFSDLDY 240
 MGMSSGPKYN VVKIQKHVTF NQVKGIFGFT DSDCIGKISF PAIQAPSFS NSFPQIFRDR 300
 80 TDIQCLIPCA IDQDPYFRMT RDVAPRIGYP KPALLHSTFF PALQGAQTKM SASDPNSSIF 360
 LTDTAQIKIT KVNKHAFSGG RDTIEHRQF GGNCDVDVSP MYLTFLEDD DKLEQIRKDY 420
 TSGAMLTGEL KKALIEVLQP LIAEHQARRK EVIDEIVKEF MTPRKLSDFF Q 471

Seq ID NO: C287 Protein Sequence

	1	11	21	31	41	51	
5	MTVFRQENWD	DYYDTGEELG	SGQFAVVKKC	REKSTGLQYA	AKFIKKRRTK	SSRRGVSRED	60
	IEREVNSILKE	IQHPNVITLH	EVYENKTOJL	LILELVAGGE	LFDFLAEAKS	LT'EETAEFTL	120
	KQILNWSVYL	HSLQIAHFDL	KPENIMTLDR	NVPKPRIKII	DPGLARKIDF	GNEFKNIFGT	180
	PEPVAPBEIV	YEPGLGLEAD	WSGIVTIIYL	LSGASPFPGD	TKQETLANVS	AVNYEFDEBY	240
10	PSNTSALAKD	FIRRLRLVKD	KKRMTIQDSL	QHPWIKPDOT	QOALSRKASA	VNMEKPKFFA	300
	AKRKKQSVR	LISLCORLSR	SFLSRNSMVS	ARSDOTLDEE	DSFVMAKIIH	AINDNDVPLG	360
	QHLGSLSNY	DVNPQNKHGT	PPLIIAAGCG	NIQILQLLIK	RGRSIDVQDK	GGSNNAVYAA	420
	RHGHVDTLKF	LSENKCPLDV	KDGSEMALH	VAARYGHLLAS	AQVTCASAAQ	IPISRTKEEE	480
	TLPLCRAWHG	YYSVAKALCE	AGGVNMIKNT	EGESTPLTAD	ARGYHIDVE	LAEGHADLNA	540
15	CKDKDGHIALH	LAVRRRCQMEV	IKTLLSGQCF	VQDYDRHGNT	PLHVACKDGN	MPDIVALCEA	600
	CNDLNTSNKY	KRTPHLAAN	NGILDVIRLE	CLMGASVEAL	TLDGTAEEL	ARSEQHEHVA	660
	GLLARLRKOT	HRLGFIQQLR	PTQNLQPRIK	LKLPFGHSGG	KTTLVLESKC	GLLRSFRRRR	720
	PRPLSSTNSS	RFPPSPPLASK	PTVSYSINNL	YPGCENVSVR	SRSMFPEPGL	TKGMLEVFVA	780
	PTHELPHCSAD	DQSTKAIDIQ	NAYLNGVGD	SWFESGNGFV	YFCYDYPAAN	NDPTSISHVVV	840
20	FSLEPGYDIQ	LNPFVIFWLF	LKSLVPEVEP	IAPGGKLGKQ	LQVVLVATHA	DIMNVPRPAG	900
	GEEFYDQKTS	LLKEIRNRPF	NDLHISNKL	VLADAGASGP	DMKVLNRNLO	EIRSQQIVSVC	960
	PPMTHLCERK	ISTLPSWRKL	NGPNQMSLQ	QFYVDVQDQL	DNKLASEEDLR	RIAQQHLSTG	1020
	EINIMQSETV	QDVLLDLPRK	LCTNVILGKLL	SVSTPRALHH	YRGRYTVEDT	QRLPVDSPTVE	1080
	ELLQILDAMD	ICARDLSSGT	MVDVPAIKLT	DNLHRSWADE	EDVMVYGVG	RIVPVEHLTP	1140
25	FPCCGIFHKVQ	VNLCRNIHQO	STEGDADIRL	VWNGCKLANR	GAELLVLVLN	HGGGIEVOQVR	1200
	GLETEKIKCC	LLDSDVCSTI	ENVMATMLPG	LLTVKHYLSL	QQLREHHEPV	MIYQPRDFPR	1260
	AQTLKETSULT	NTIMGYKESF	SNIMCPGCHD	VYSQASLQMD	IHASDNLNLT	RRLKSLRLDP	1320
	PDPLGKDOWL	LAMNLGLPDL	VAKYNTNGGA	PKDFLPSPLH	ALLRETTVPT	ESTVGTLMASK	1380
	LRLGGRDDAA	DLLLKASSVF	KINDLNGOGE	AYASSNSCGT	SYNSISVVVS	R	1440

	1	11	21	31	41	51	
35	MELRARGWWL	LCAAALVAC	ARGDPASKSR	SCGEVRQIYG	AKGFSLSDPV	QAEISGEHLR	60
	ICPQGYTCCT	SEMEENLANR	SHAELETALR	DSSRLVQLAM	ATQLRSFDDH	FQHLNDLSER	120
	TLQATFPFAG	GELYTQNARA	PRDLYSELRL	YYRGANLHLE	ETLAEFWARL	LERLFLKQLHP	180
	QLLLPDYDLD	CLGKQAEALR	PGPEAPRELR	LRATRAFVA	RSFPVQGLGVA	SDVVRKVAQV	240
40	PLPGECSTWR	MKLVYCAHL	GVPGFARCPD	YCRNVLKGVL	ANQADLDAEW	RNLLDSMVLVI	300
	TDKFWGTSGV	ESVIGVTSW	LAEAINALDQ	NRDTLTAKVI	QCCGNPKVNP	QGGPGEKKRR	360
	RGKLAPRERP	PSGTLEKLVS	EKAQRLRDVQ	DFWISLPGTL	CSEKMAIISA	SDDRCWNGMA	420
	GRGYLPEVMG	DGLANQINN	EVEVDITKPD	MTIRQQIMQL	KIMTNRLRSA	YNGNDVDFQD	480
	ASDDGSGSGS						490

	1	11	21	31	41	51	
50	MIILIYFLLL	LWEDTQGWGF	KDGIFHNSIW	LERAAGVYHR	EARSQKYKLT	YAEAKAVCEF	60
	EGGHLATYKF	LEAARAKIGFH	QCAAGNMAKG	RVNYPVVKPG	PNCQGFQGTGI	IDYQIRLRNS	120
	ERWDAYCYNP	HAKGCGVGFP	DKPQIFKSPG	FPGVEYEDNI	CYWHIRLKYG	QRHLSEFLDF	180
	LEDDEPGCLA	DVVEIYDSYD	DVHGFPVGRY	GDELDDIIS	TGNVMTLKFL	SDASVTAGGF	240
55	QIKYVAMPDV	SKSSQGKNTS	TTSTGNKRYC	AGRFSHL			277

60	1	11	21	31	41	51	
	MRANDALQVL	GLLFLSLARGS	EVGNSQAVCP	GTLNGLSVTG	DAENQYQTYL	KLYERCEVVM	60
	GNLEIVLTGH	NADLSPLQWI	REVTVGVVIA	MNEFSLTLPF	NLRVVRGTQY	YDGFKAIFVM	120
	LNYNITSSHA	LRLRLTLQTL	EILSGGVVIA	KNDLCHMDT	IDWRDIVRDR	DAEIVVKDNG	180
	RSCPCHCIVF	KGRCWGPGSE	DQCTLTLTIC	APQCNHCICF	PMPNQCCDCE	CAGGCSQPD	240
65	TDCFCACHFN	DSGACVPRCP	QPLVYNKLT	QLEPNHRTKY	QYGGCVCHAS	PHNFPVVDQT	300
	CVRACFPDPM	EVDKNGLKM	CGBTGSGSRF	QTVDSNNIDG	VFNCTKILGN		360
	LDPLITGLNG	PDWHKIPALD	PEKLVNVRTV	REITGYLNIQ	SWPPHMNSFV	VFSNLTITIG	420
	RSLYNRGFSL	LIMKNLVNVS	LGRFSLEKIS	AGRIYISANR	QLCYHHHLNW	TXVLRGTEPE	480
70	RLDIKHNRRP	RDCVABGKVC	DPLCSNCGSC	GGPGQCLSC	RNYSRGGVCV	TCNFNLNPEG	540
	REFAHEACEP	SCHPECPQMG	GTATCSNGSG	DTCAQCAHFR	DGPHCVSSCP	HGVLGAGKPI	600
	YKYPDVQNEC	RPCHENTCQG	CKGPELQDCL	QGTILVLIGT	HLTMALTVIA	GLUVIFMMIG	660
	GTVLYNWRGR	IQNKRAMRKY	LERGESIEPL	DSSEKANKVL	ARIKFETLEH	KLKVLGSSVF	720
	GTTHKGVWIP	EGESIKIPVC	LIKVEDSKRP	QSPQAVTDM	LAIQSLDHAH	IVRLGLLCPG	780
75	SSLQLVTVYL	PLGSLLDHVR	QHRGLAQPL	LINMGVQIAK	GMYYLEEHEG	VHRNLAAENV	840
	LLKSPSQVQV	ADFGVADLLP	PDDKQLLYSE	AKTPIKMNAL	ESIHPFGYKH	QSDVWSYGVV	900
	VWELMTFGAE	PYAGLRLAEV	PDILLEKGERL	AQPOICTIDV	YVMVWKWMI	DSNIRPTPKE	960
	LANEFTTMR	DPPIYLVIKR	ESGGSIAPGP	EPHGLTNKLL	EEVELEPELO	LDLLEAEED	1020
	NLAATTGASA	LSLPVGTILN	PRSGQSLSPG	SEGYHMPNQG	NLGGSCQESL	VGSSGERCPR	1080
	PTVSTLPMFPG	CLASESSEGH	VTGSEAELOE	KVSMCRSRSR	SRSPPRGTES	AHYSORHSLL	1140
80	PPVTHPLSPRC	LEEDENVGYI	MFYTHLQGP	SSREGTLSSV	QLSSVLPTGE	EDEDEYEHYV	1200
	NRRRRHSPPH	PPRSSSLEEL	GYEYKMDVGS	LSASLGSSTQ	CPHLFVPIMP	TAGTTFPDEDY	1260
	EYMNQRQDGG	GGPGDYAAMG	ACPASEQGYE	EMRAFQPGPH	QAPHVHYARL	KTLRSLSATD	1320
	SAMNRQPDYWH	SRLFPPKANAQ	RP				1380

Seq ID NO: C291 Protein Sequence
Protein Accession #: NP_001207.1

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5      1      11      21      31      41      51
      |      |      |      |      |      |
MAPLCPSPWL PLLIPAPAPG LTVQLLLSL LLMPVHPQRL PRMQEDSPLG GGSSGEDDPL 60
GEEDLPSEED SPREDPPGE EDLPGEEDLP GEEDLPEVKP KSEEGSLKL EDLPTVEAPG 120
DPQEPQNNAH RDKEGDDQSH WRYGGDPPWP RVSPACAGRF QSPVDIRPOL AAFCPALRPL 180
ELLGFQLPPL PELRLRNNGH SVQLTLPPGL EMALGPGREY RALQLHLHWG AAGRPGSEHT 240
10    VEGHRFPAAEI HVVHLSTAF A RVDEALGRPG GLAVLAAPLE EGPEENSAYE QLLSRLEEIA 300
EGSETQVPG LDISALLPSD FSRYFYEGS LTPPCAQGV IWTVFNQTM LSAKQLHTLS 360
DTLWGPDSR LQLNFRATQP LNGRVIEASF PAGVDSSPA AEPVQLNSCL AAGDILALVF 420
GLLPAVTSVA FLVQMRQRH RGTGKGVSYR PAEVAETGA 459

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15 Seq ID NO: C292 Protein Sequence
Protein Accession #: NP_004198.1

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20      1      11      21      31      41      51
      |      |      |      |      |      |
MGGAVVDEGP TGVKAPDGGW GNAVLFGCFV ITGFSYAPFK AVSVFPKELI QEPGIGYSdT 60
AMISSILLAM LVGTGPLCSV CVNRFPCRFP MLVGGLPASL GMVAASFCSR IIQVYLTGTG 120
ITGLGLALNF QPSLIMLNRY FSKRRPMANG LAAAGSPVFL CALSPGLQL QDRYGRGGF 180
LILGGLLNC CYCAALMRPL VVTAQPGSGP PRPSRRLDL SVFRDRGFVL YAVAASVMVL 240
25    GLFVPPVPV SVAKDLGVPD TKAAPLLTIL GFIDIFARPA AGFVAGLGKV RPYSVYLFSF 300
SMFFNGLADL AGSTAGDYG LVVFCIFFGI SYGMVGALQF EVLMAIVGTH KPSAIGLVL 360
LMEAVAVLVG PPSGKLLDA THVYMYVPI AGAEVLTSSL ILLGNFFCI RKKPKPEQPE 420
VAAAEELKX KPPADSGVDL REVEHFLKAE PEKNGEVVHT PETSV 465

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30 Seq ID NO: C293 Protein Sequence
Protein Accession #: NP_000349.1

```

35      1      11      21      31      41      51
      |      |      |      |      |      |
MALFVRLAL ALALALGPAA TLAPAKSPY QLVQHSRLR GQHGPNVCA VQKVIQTNRK 60
YFTNCKQNYQ RKICCKSTVI SYECCPGYEK VPGEKGCFA LPLSNLYETL GVVGSTTTQL 120
YTDRTKLRP EMGGPGSPTI FAPSNEAWAS LPAEVLDSL SVNVIELINA LRYHVMGRRV 180
LTDELKGMT LTSQMQNSNI QIHHPNGIV TVNCARLLKA DHATNGVUH LIDKIVISTIT 240
NNIQIIEIE DTFETLRAAV AASGLNTMLE GNGQYTLAP TNEAPEKIPS ETLNRLIGDP 300
40    EALRDLNNH ILKSAMCAEA IVAGLSVETL EGTTLLEVGCs GDMLTINGKA IISNKDILAT 360
NGVIHYDEL LIPDSAKTFL ELAAESDVST AIDLFRQAGL GNHLSGSERL TLLAPLNSVF 420
KDTPTPIDAH TRNLLRNHII KDQLASKYLY HGQTLETGG KKLRFVYVRN SLCIENS CIA 480
AHDKRGRYGT LFTMDRVLTP FMGTVMNVLK GDNRFSLVA AIQSAGLTET LNREGVYTVF 540
APTNEAFRAL PPRERSRLG DAKELANILK YHIGDEILVS GGIGALVRLK SLQGDKLEVS 600
45    LKNVVSUNK EPVASEPDIMA TNGVVHVITN VLQPPANRPQ ERGDELADSA LEIFKQASAF 660
SRASQSVRL APVYQKLLER MKH 683

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Seq ID NO: C294 Protein Sequence
Protein Accession #: NP_006527.1

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50      1      11      21      31      41      51
      |      |      |      |      |      |
MTQSLIAGPI CNLKFVTLV ALSSELFFLG AGVQLQDNGY NGLLIAINPQ VPENQNLISN 60
IKEMITEASF YLPMATKRRV FFRNIKILIP ATWKANNNSK IKQESYEKAN VIVTDWYGAH 120
GDDPYTLQYR GCGKEGKYIH PTFNLLNDN LTAGYGSRRG VVHEWAHLR WGVFDEYND 180
55    KPFYINGQNG IKVTRCSDI TGIFVCEKG CPQENCIISK LFKEGCTFIY NSTQNATASI 240
MFNQSLSSVV EFCNASTHNQ EAPNLQNMCM SLRSAMDVIT DSADPFHSFP MNGTELP PPP 300
TFSLVQAGK VVCLVLDVSS KMAEADRLQ LQQAAPFLM QIVBIHTFVG IASFDSKGEI 360
RAQLHQINR DDKRLVSVL PTTVSAKTDI SICSGLKKGF EVVEKLNGKA YGSVMILVTS 420
60    GDDKLLGNCL PTVLSSGSTI HSIALGSSAA PNLIELSLRT GGLKFFVVDI SNSNSMIDAF 480
SRISSTGDI PQHQIQLST GENVKPHQL KNTVTVDNTV GNDTMFLVTW QASGPPEIIL 540
PDPDGRKYTT NNFTITLTPR TASLWIPGTA KPGHWTYTLN NTHSLQALK VTVTSRASNS 600
AVPPATVEAF VERDSLHFPF PVMIIYANVK GFYPILNATV TATVEPTGD PVTLRLLDDG 660
AGADVIKNDG IYSRYFFSPA ANGRYSLKVH VNHSPISTP AHSIPGSHAM YVPGYTANGN 720
65    IQMNAPRKSV GRNEBERKWC FSRVSSGGSF SVLGVPAGPH PDVFPCKII DLEAVKVEEE 780
LTLSTWAPGE DFDQGGATSY EIRMSKSLQN IQDDFNAIL VNTSKRNPQQ AGIREIFTFS 840
PQISTNGPEH QPNGETHESH RIYVAIRAMD RNSLQSAVSN IAQAPLFIPP NSDPVPARDY 900
LILKGLVTAM GLIGIICLII VVTHTLRKR KRAKKENG T KLL 943

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70 Seq ID NO: C295 Protein Sequence
Protein Accession #: Eos sequence

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75      1      11      21      31      41      51
      |      |      |      |      |      |
MKFLILILLQ ATASGALPLN SSTSLKNNV LFGERYLEKF YGLEINKLPV TKMKYSGNLM 60
KEKIQEMQHF LGLKVTGQLD TSTLEMMHAP RCGVPDVHHP REMPGGPVWR KHYITYRINN 120
YTPDMNREDV DYAIRKAFQV WSNVTPKFSS KINTGMADIL VVFARGAGD PHAFDGKGI 180
LAHAFGPGSG IGGDAHFDEP EFWTTHSGGT NLFLTAVHEI GHSGLGHSS DPKAVMFPTY 240
KYVDITFRL SADDIRGIQS LYGDPEKQNR LPNPDNSEPA LCDPNLSFDA VTVGNKLPF 300
80    FKDRFFWLKV SERPKTSVNL ISSLWPTLPS GIEAAEIEA RNQVFLKDD KYWLISNLRP 360
EFNYGSIHS FGPFPNVKKI DAAVFNPRFY RTYFFVDNQY WRYDERRQM DPGYPKLITK 420
NEQIGIKPDI AVFYSKKNKY YFFQGSNQFB YDFLLQRITK TLKSNSWFGC 470

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Seq ID NO: C296 Protein Sequence
Protein Accession #: Eos sequence

1 11 21 31 41 51
 5 MKFLILLILQ ATASGALPLN SSTSLKNNV LFGERYLEKP YGLEINKLPV TKMKYSGNLM 60
 KEKIQEMQHF LGLKVTGQLD TSTLEMMHAP RCGVPDVHHP REMPGGPVWR KRYITYRINN 120
 YTPDMNREDV DYAIRKAFQV WSNVTPLKFS KINTGMADIL VVFARGAHD FHAPDGKGGI 180
 LAHAFPGSG IGGDAHFDED EFWTHSGGT NLFLTAVHAI GHSGLGHSS DPKAVMPFTY 240
 KYVDINTFRL SADDIRGIQS LYGDPKENQR LFNPDNSEPA LCDPNLSFDA VTTVGNKIFF 300
 10 PKDRFPWLKV SERPKTSVNL ISSLWPTLPS GIEAAYRIEA RNQVFLKDD KYWLISNLRP 360
 EPNYPKSIHS FGPFNFVKKI DAAVFNPRFY RTYFFVDNQY WRDERRQMM DPGYFKLITK 420
 NFGQIGPKID AVFYSKNKY YFFQGSNQFE YDFLLQIRITK TLKSNWFEGC 470

Seq ID NO: C297 Protein Sequence
 Protein Accession #: NP_008883.1

1 11 21 31 41 51
 15 MAKINSTVRC PQGLLIFGNV IIGCCGIALT AECIPFVSQD HSLYPLLEAT DNDDIYGAAW 60
 IGIFVIGICLF CLSVLGIVGI MKSSRKILLA YFILMPIVYA FEVASCITAA TQRDPFTPNL 120
 20 FLKQMLERYQ NNSPPNDDQ WKNNGVTKTW DRLMLQDNCC GVNGPSDNQK YTSAFRTENN 180
 DADYFWPRQC CVMNKLKEPL NLEACKLGVP GFYHNGQCYE LISGPMNRHA WGVANFGFAI 240
 LCWTFWVLLG TMFWSRIEY 260

Seq ID NO: C298 Protein Sequence
 Protein Accession #: NP_001784.2

1 11 21 31 41 51
 30 MGLPRGPLAS LLLLQVCWLQ CAASEPCRAV FREAEVTLEA GGAQEPEQQA LGKVFMCPCP 60
 QEPALFSTDN DDFTVRNGET VQERRSLKER NPLKIFPSKR ILRRHKRDWV VAPISVPENG 120
 KGPPFPQLAQ LKSNKDRDTK IFYSITGPGA DSPPEGVFAV EKETGWLLN KPLDREEIAK 180
 YELFGHAYSE NGASVEDPMN ISIIVTDQND HKPKFTQDTF RGSVLEGVLP GTSVMQVAT 240
 DEDDAIYTYN GVVAYSISHS EPKDPHDLMP TIHRSTGTIS VISSGLDREK VPEYTLTIQA 300
 35 TMDGDGSGTT TAVAVVEILD ANDNAPMFDP QKYEAHVPEN AVGHEVQRLT VTDLDAPNSP 360
 AWRATYILIM GDDGDHFTIT THPESNQGIL TTRKGLDFEA KNQHTLYVEV TNEAPFVLKL 420
 PTSTATIVVH VEDVNEAPVF VPPSKVVEVQ EGIPTGEVPC VYTAEDPDKE NQKISYRILR 480
 DPAGWLANDP DSGQVTAAGT LDREDEQFVR NNIYEVMLA MDNGSPPTTG TGTLLTLTLD 540
 VNDHGVPVEP RQITICNQSP VRQVLNITDK DLSPTSPFQ AQLTDDSDIY WTAEVNEEGD 600
 40 TVVLSLKKFL KQDTYDVHLS LSDHGNKEQL TVIRATVCDK HGHVETCPGP WKGGFILPVL 660
 GAVLALLFL LVLALLVRKK RKIKEPLLLP EDDTRDNVFP YGEEGGGEED QDYDITQLHR 720
 GLEARPEVVL RNDVAPTIIP TPMYRPRPAN PDEIGNFIE NLKAANTDPT APPYDTLLVF 780
 DYEGSGSDAA SLSSLTSSAS DQDQDYDYLN EWGSRFKKLA DMYGGEEDD 829

Seq ID NO: C299 Protein Sequence
 Protein Accession #: NP_005620.1

1 11 21 31 41 51
 50 MAKSAENGI YSVSGDEKKG PLIAPGPDGA PAKGDGPVGL GTPGGR LAVP PRETWTRQMD 60
 FMSCVGFVAV GLGNVWRFPY LCYKNGGGVP LIPIYVLI ALV GGPIIFFLEI SLGQFMKAGS 120
 INWNICPLF KGLGYASPMV VPYCNTYYIM VLAWGFYYLV KSPTTLPLWA TCGHTWNTFD 180
 CVEIPRHEDC ANASLANLTC DQADRRSPV IEFWENKVL RLSGGLVPGA LNWEVTLCLL 240
 ACWLVVYPCV WKGVKSTGKI VYFTATFPYV VLVVLLVRGV LLPGALDGII YYLKPDSKSL 300
 55 GSPQWIDAG TQIFPSYAIG LGALTALGSY NFNNNCYKD AILALINSQ TSFFAGFVVF 360
 SILGPMMAEQ GVHISKVAES GPGLAFIAYP RAVTLMPVAP LWAALFFPML LLLGLDSQFV 420
 GVEGFTVGLL DLLGPASYFR FQRBISVALC CALCFVIDLS MVTDDGMVVF QLFDDYSAGS 480
 TTLNQAEWE CVVAVWYGA DRFMDDIACM IGYRCPWMK WCWSFTPLV CMGIFIFNVV 540
 YYEPLVYNT YVPFWGGEAM GWAPALSSML CVPLHLGLCL LRAKGTMAER WQHLTQPIWG 600
 60 LHLLEYRAQD ADVRLTLTIT PVSESSKVVV VESVM 635

Seq ID NO: C300 Protein Sequence
 Protein Accession #: NP_006507.1

1 11 21 31 41 51
 65 MEPSSKKLTG RLMLAVGGAV LGSLLQFGYNT GVINAPQKVI EEFYNTQWVH RYGESILPTT 60
 LITLWSLSVA IPSVGMIGS FSVGLFVNRF GRRNSMLMMN LLAPVSAVLM GFSKLKGSFE 120
 MLILGRFIIIG VYCSLTGTFV PMYVGEVSPT AFRGALGTLH QLGIVVGILI AQVFGLD SIM 180
 70 GNKDLWPLLL SIIFIPALLQ CIVLPFCPEP PRFLINRNE ENRAKSVLKK LRGTADVTHD 240
 LQEMKEESRQ MMREKKVTIL ELFRSPAYRQ PILIAVVLQ SQQLSGINAV FYYSTSIFEK 300
 AGVQPVYAT IGGGIVNTAF TVVSLFVVER AGRRTLHLIG LAGMAGCAIL MTIALALLEQ 360
 LPWMSYLSIV AIFGFVAFFE VGPPIPWF I VAEFLSQGPR PAIAVAGFS NWTSNFIVGM 420
 CPQYVEQLCG PYVFIIFTVL LVLFIFTYF KVPETKGRTP DEIASGFRQG GASQSDKTPE 480
 75 ELFHLGADS QV 492

Seq ID NO: C301 Protein Sequence
 Protein Accession #: XP_035292.2

1 11 21 31 41 51
 80 MAGAGPKKRA LAAPAAEEKE EAREKMLAAK SADGSAPAGE GEGVTLQONI TLLNGVAIIV 60
 GTIIGSGIFV TPTGVLEKEAG SPGLALVVA ACGVFSIVGA LCYAE LGTTI SKSGGDYAYM 120
 LEVYGLSPAF LKLMIELLII RPSSQYIVAL VPATYLLKPL PFTCPVPEEA AKLVACLVL 180
 LLTAVNCYSV KAATRVQDAF AAKLLALAL ILLGFPVQIG KGDVSNLDPN FSFEGTKLDV 240

5 GNVIALALYSYG LPAYGGWNYL NVTTEEMINP YRNLPLAIII SLPIVTLVVV LTNLAYFTTL 300
 STEQMLSSSEA VAVDGNVYHL GVMSWIIPVF VGLSCFGSVN GSLFTSSRLP FVGSREGHLP 360
 SILSMIHQL LTPVPSLVFT CVMTLLYAFS KDIFSVINFF SFFNWLVAL AIIGMIWLRH 420
 RKPELERPIK VNLALEVFVFI LACLFLIAVS FWKTPVECGI GFTIILSGLP VYFFGVWVKN 480
 KPKWLLQGIF STTVLQXLM QVVPQET 507

Seq ID NO: C302 Protein Sequence
 Protein Accession #: NP_005259.1

10 1 11 21 31 41 51
 | | | | |
 MNWSIFEGLL SGVKNYSTAF GRWLSLVFI FRVLVYLVA ERVWSDDHKD FDCNTRQPGC 60
 SNVCFDEFFP VSHVRLWALQ LILVTCPSLL VMHVAYREV QEKRRHREAHG ENSGRLYLNP 120
 15 GKRRGGLWMT YVCSLVFKAS VDIAPLYVFH SFYPKYILPP VVKCHADPCP NIVDCFISKP 180
 SBKNIFTLFM VATAAICILL NLVELIYLVS KRCHECLAAR KAQAMCTGHH PHGTTSSCKQ 240
 DDLSGDLIF LGSDSHPPLL PDRPRDHVKK TIL 273

Seq ID NO: C303 Protein Sequence
 Protein Accession #: NP_005121.1

20 1 11 21 31 41 51
 | | | | |
 MKICSLTLLS FLILAAQVLL VEGKKVKVNG LHSKVVSSEQ DTLGNTQIKQ KSRPGNKGKF 60
 VTQDQANCRW AAEQEBEGIS LKVECTQLDH EFSCVFAGNP TSCLKLKDER VYWKQVARNL 120
 25 RSQKDICRYS KTAVTRVCR KDPFESSLKL VSSTLPQNTK PRKEKTEMSP REHIKKGKETT 180
 PSSLAVTQTM ATKAPECVED PDMANQRKTA LEFCGETWSS LCTPFLSIVQ DTSC 234

Seq ID NO: C304 Protein Sequence
 Protein Accession #: AAH22542

30 1 11 21 31 41 51
 | | | | |
 MCSEIILRQE VLKDGFRDL LIKVKFGESI EDLHTCRLLI KQDIPAGLYV DPYELASLRE 60
 RNITEAVMVS ENFDIEAPNY LSKESEVLIY ARDSQCIDC FQAFLEVHCR YHRPHSEDEG 120
 35 ASIVVNNPDL LMFCDQAGSR RMIRFRPDSF DKTIEFPILK CMAHSEVAAP CALENEDICQ 180
 WNMKMKYSVY KNVILQVPVG LTVHTSLVCS VTLITILCS KKKKK 225

Seq ID NO: C305 Protein Sequence
 Protein Accession #: NP_004985.1

40 1 11 21 31 41 51
 | | | | |
 MSLWQPLVLV LLVLGCFCAA PRQRQSTLVL FPGDLRTNLT DRQLABEYLY RYGYTRVAEM 60
 RGEKSLGPA LLLAQQLSL PETGELDSAT LKAMRTPROG VPDLGRPQTF EGDLLKWHHN 120
 45 ITYWIQYSE DLPRAVIDDA FARAFALWSA VTPLTFTRVY SRDADIYIQF GVAEHGDGYP 180
 FDGKDGLLAH AFPPGPGIQG DAHFDDELW SLGKGVVVPV RFGNADGAAC HPPFIFEGRS 240
 YSACTDGRS DGLPWCSTTA NYDTDDRFGP CPSERLYTRD GNADGKPCQF PFIFQGGSYS 300
 ACTTDGRSG YRNCATTANY DRDKLFGFCP TRADSTVMGG NSAGELCVFP FTLGKEYST 360
 50 CTSEGRGDGR LWCATTSNFD SDKKWGFCDP QGYSLFLVAA HEPGHALGLD HSSVPEALMY 420
 PMYRFTGTFP LHKDDVNGIR HLYGPRPEPE PRPPTTTTPQ PTAPPTVCPPT GPPTVHPSE 480
 PTAGPTGPPS AGPTGPPTAG PSTATTVPIS PVDDACNVNI FDAIAEIGNQ LYLFDKDGKYW 540
 RFSEGRGSRP QGPFLIADKW PALPRKLDVS FEEPLSKKLF PFSGRQVWVY TGASVLGPRR 600
 LDKLGLGADV AQVTGALRSR RGMMLLFSGR RLWRFDVKAQ MVDPRSAEV DRMPGVPFLD 660
 55 THDVFPYREK AYFQDRFYW RVSSRSRLNQ VDQVGYVTYD ILQCPED 707

Seq ID NO: C306 Protein Sequence
 Protein Accession #: NP_000204

60 1 11 21 31 41 51
 | | | | |
 MAGPRPSPWA RLLLAALISV SLSGTLANRC KKAPVKSCYE CVRVKDCAY CTDEMFRDRR 60
 CNTQAEALLAA GCQRESIVVM ESSFQITEET QIDTTLRRSQ MSPQGLRVRL RPEGERHFEL 120
 EVFEPLESPV DLYILMDFSN SMSDDLNLK KMGQNLARVL SOLTSDYTIG FGKFDKVSF 180
 65 PQTDMRPEKL KEFWMNSDPP FSKNVIISLT EDVDEFRNKL QGERISGNLD APEGGFDAIL 240
 QTAVCTRDIG WRPDSTHLLV FSTESAFHYE ADGANVLAGE MSRNDERCHL DTTGTYTQYR 300
 TQDYPSPVPTL VRLAKHNII PIPAVTNYSY SYYEKLHTYF PVSSGLVQLQE DSSNIVELLE 360
 EAFNRIRSNL DIRALDSPRG LRTEVTSKMF QKTRTGSFHI RRGVEGVIYQV QLRALSHVDG 420
 THVCQLPEDQ GKNHILKPSF SDGLKMDAGI ICDVCTCELQ KEVRSARCSF NGDFVCGQCV 480
 70 CSEGWSGQTC NCSTGSLSDI QPCLREGEDK PCSGRGECQC GHCVCYGEGR YEGQFCHEYDN 540
 FQCPTSGFL CNDGRGCSMG QCVCEPGWTG PSCDCPLSNA TCIDSNGGIC NGRGHCECGR 600
 CHCHQQSLYT DTICEINYSI IHPGLCEDLR SCVQCQAWGT GEKKGRTCEE CNFKVMVDE 660
 LKRAEEVVVR CSFRDEDDDC TYSYTMEDGD APGFNSTVLV HKKKDCPPGS FWWLIPLLLL 720
 75 LLPLALLLL LCKWYCACCK ACLALLPCCN RGHMVGFKED HYMLRENLMA SDHLDTPMLR 780
 SCNLKGRDVV RNVKTNMQR PGFATHAASI NPTELVPYGL SLRLARLCTE NLLKPDTRER 840
 AQLRQEVEEN LNEVYRQISG VHKLQQTFR QPNAGKKQD HTIVDTVLMA PRSAKPALEK 900
 LTEKQVQRA FHDLVAPGY YTLADQDAR GMVEFQEGVE LVDVVRVPLFI RPEDDDEKQL 960
 LVEADIVPAG TATLGRRLVN ITIIEQARD VVSPEQPEFS VSRGDQVARI PVIRVRVLDG 1020
 KQSVSYRTQD GNAQNRDYI PVEGELLPOP GEAWKELQVK LLELQEVDSL LRGRQVRFRH 1080
 80 VQLSNPKFGA HLGQPHSTTI IIRDPDELDR SPTSQMLSSQ PPPHGLGAP QNPNAKAAGS 1140
 RKIHFNWLP SKPMGYRVK YNIQGDSESE AHLDSKVPV VELTNLYPYC DYEMKVCAYG 1200
 AQGEGPYSSL VSCRTHQEVF SEFGRLAFNV VSSTVTQLSW AEPAEINGBI TAYEVCYGLV 1260
 NDDNRPIGPM KKVLDNFKN RMLLIENLRE SQPYRYTVKA RAGAGWGPBR BAIINLATQP 1320
 KRPMSPITIP DIPIDVLAQS EDYDSFLMYS DDVLRSPSGS QRPVSDDTG CGWKFEPILLG 1380
 EELDRLRVTV RLPPPELIPRL SASSGRSSDA EAPTAPRITA ARAGRAAAVP RSATPGPPGE 1440

5 HLVNGRMDFA FPGSTNSLHR MTTTSAAYG THLSPHVPHR VLSTSTLSTR DYNSTRSEH 1500
 SHSTTLPRDY STLTSSVSHD SRLTAGVBDT PTRLVFSALG PTLRLVSWQE PRCERPLQGY 1560
 SVEYQLLNGG ELHRLNIPNP AQTSSVVVEDL LPNHSYVFRV RAQSQEGWGR EREGVITIES 1620
 QVHPQSPPLCP LPGSAFTLST PSAPGPLVFT ALSPDSLQLS WERPRRPNGD IVGYLVTCEM 1680
 AQGGGPATAF RVDGDSPESE LTVPGLSENV PYKFKVQART TEGFGPEREG IITIESQDGG 1740
 FFPQLGSRAG LFQHPQLQSEY SSITTTHTSA TEPFLVDGLT LGAQHLEAGG SLTRHVTQEF 1800
 VSRTLTSTGT LSTHMDQQFF QT 1822

10 Seq ID NO: C307 Protein Sequence
 Protein Accession #: NP_076404.1

15 1 11 21 31 41 51
 | | | | | |
 MGFNLTAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN 60
 GLAVWIFFIH NKNTSFIFYL KNIVVADLIM TLTPFFRIVH DAGFGPWYFK PILCRYTSVL 120
 FYANMTSTIV FLGLISIDRY LKVVKPGFDS RMYSTITTKV LSVCVWVIMA VLSLPNIILT 180
 NGQPTEDNIH DCSKLSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYIAIS RYIHKSSRQF 240
 ISQSSRRKRH PFTCFPLPYH CRIPFTFPHL DRLLDESAQK ILYYCKEITL 300
 20 FLGACNVCLD PIIFYFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV 358

Seq ID NO: C308 Protein Sequence
 Protein Accession #: NP_065840.1

25 1 11 21 31 41 51
 | | | | | |
 MVWCLGLAVL ELVISQGADG RGKPEVVSVV GRAESVVLG COLLPPAGRP PLHVIEWLRF 60
 GFLPLPIFIQ GLYSFRIDPD YVGRVRLQKG ASLQIEGLRV EDQGWYECRV PFLDQHPIED 120
 DFANGSVVHL TVNSPPQFQE TTPAVLEVQE LEPVTLRCVA RGSPLPHVTW KLRGKDLQGG 180
 30 QGQVQVQNGT LRIRRRVERGS SGVYTQASS TEGSATHATQ LLVLGPPVIV VPPKNSTVNA 240
 SQDVSLACHA EAYPANLTYS WFOQDINVFH ISRLQPRVQI LVDGSLRLLA TQDDAGCYT 300
 CVPNGLLHP PSASAYLTVL CMFGVIRCFV RANPPLLFVS WTKDGKALQL DKFPQWSQGT 360
 EGSLIIALGN EDALGEYSCT FYNSLGTAGP SPVTRVLLKA PPAPIERPKE EYFQEVGREL 420
 LIPCSAQGDP PPVVSMTKVG RGLQQAQVD SNSSLILRPL TKEAHGHWEC SASNAVARVA 480
 35 TSTNVYVLTG SPHVVTNVSV VALPKGANVS WEPGFDGGLY QRFSSVWYTP AKRPDRMHHD 540
 WVSLAVPVGA AHLLVPGLQP HTQYQFSVLA QNKLGSGGFS EIVLSAPEGL PTPPAADGLP 600
 PTEIPPLPS PRGLVAVRTP RGVLLHWDPP ELVPKRLDGY VLEGRQSSQC WEVLDPAVAG 660
 TETELLVPLG IKDVLVEFRL VAFAGSFVSD PSNTANVSTS GLEVYPSRTQ LPGLLPQFVL 720
 AGVVGVCVHL GVALVLSILA GCLLNRRAA RRRRKRLRQD PPLIFSPGK SAAPSALGSG 780
 40 SPDSVAKLKL QGSPVPSLRQ SLLWGDPAQT PSPHPDPFSS RGPLEPLEPIC RGPDGRFVMG 840
 PTVAAPQERS GREQAEPRTF AQRLARSFDC SSSSPSGAPQ PLCIEDISPV APPPAAPPSP 900
 LRGPGPLLYQ LSLPFPREM NVDGDPFLEE PSPAAPPDYM DTRRCPTSSF LRSPETPPVS 960
 PRESLPAGAV GAGATAPPPY TALADWTLRE RLLPGLLPAA PRGSLTSQSS GRGSAFLRP 1020
 PSTAPSAGGS YLSPAPGDT SWSGPERWP RREHVVTYSK RRNTSDVDENY EWDSEFPDGM 1080
 45 ELLETLLHGL ASSRLRPEAE TELGVKTPEE GCLLNTAHTV GPEARCAALR EEFLLAFRRR 1140
 DATRARLPAY RQPVPHPEQA TLL 1163

Seq ID NO: C309 Protein Sequence
 Protein Accession #:

50 1 11 21 31 41 51
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 55 PAQDLDFYIT EKGPLGEGPS RCFFGQVVA A IOHCHSRGVV HRDIDKENIL IDLRGCAKL 180
 IDFGSGALLH DEPTYDFDGT RVYSPPENIS RHQYHALPAT VWSGLILLYD WCGDIPFER 240
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60 Seq ID NO: C310 Protein Sequence
 Protein Accession #: NP_002501.1

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 GQYFQKLGRG SVRVSVNTAN VTGLPQLMEV TVYRRHGRAY VPIAQVKDVI VVTDQIFPVF 240
 70 TMFQKNDRNS SDETFLKDLF IMPDVLIDP SHFLNYSTIN YKWSFGDNTG LFPVSTNHTVN 300
 HTYVINGTFS LNLTVKAAAP GPCPPPPPPP RPSKPTPSLG PAGDNPLELS RIPDENQIN 360
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 CRITQNTVCS PVDVDEMCLL TVRRTFNGSG TYCVNLTLDG DTSALTSTL ISVPDRDPAS 480
 PLRMANSALI SVGCIAIFVT VISLLVYKHK KEYNPIENSP GNVVRSGKLS VPLNRAKAVF 540
 PFGNQEKDPL LKNQEFKGV 560

75 Seq ID NO: C311 Protein Sequence
 Protein Accession #: Eos seq

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 ILFEVGTEN LDFKAIIDGV ESVSFRGKQA ALDPPILLNL LPNSTDKYI YNGLSTSPPC 240
 TDTVDWIVFK DTVSISESQL AVFCEVLTMQ QSGYVNLMDY LQNNFREQQY KFSRQVFSY 300

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	LIGTEEIIKE	EEEGKDIEEG	AIVNPGRDSA	TNQIRKKEPQ	ISTTTHYNRI	GTKYNEAKTN	480
	RSPTRGSEFS	GKGDVPNTSL	NSTSQPVTKL	ATEKDISLTS	QTVTELPHT	VEGTSASLND	540
	GSKTVLRSPH	MNLSGTAEASL	NTVSITEYEE	ESLLTSFKLD	TGAEDSSGSS	PATSAIPFIS	600
	ENISQGYIFS	SENPTITYD	VLIPESARNA	SEDSTSSGSE	ESLKDPSMEG	NVWFPSSTDI	660
	TAQPDVGSGR	ESFLQNTYTE	IRVDESEKTT	KSPSAGPVMS	QGPSVTDLEM	PHYSTFAYFP	720
	TEVTPHAPT	SSRQQDLVST	VNVVYSQTTQ	PVYNEASNS	HESRIGLAEG	LESEKKAVIP	780
10	1	11	21	31	41	51	
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	LIVSALTFI	CLVVLVGILI	YWRKCFQTAH	PYLESTSPR	VISTPPTPIF	PISDDVGAIP	840
	IKHFPKHVAD	LHASSGFTTE	FEVQSCTVD	LGITADSSNH	PDNKHKNRYI	NIVAYDHSRV	900
	KLAQLAEKDG	KLTDYINANY	VDGYNRPKAY	IAAQGPLKST	AEDFWRMIWE	HNVFVIMIT	960
	NLVEKGRRC	DQYWPADGSE	EYGNFLVTQK	SVQVLAYTIV	RNPTLRNTKI	KKGSQKGRPS	1020
	GRVVTQHYHT	QWPDGMVPEY	SLPVLTFVRK	AAYAKRHAVG	PVVVHCASAGV	GRTGTIYIVLD	1080
	SMLQQIQHEG	TVNIFGFLKH	IRSQRNYLVQ	TEEQYVFIHD	TLVEAILSKE	TEVLDSHIHA	1140
15	1	11	21	31	41	51	
	1	11	21	31	41	51	
	YVNALLIPGP	AGKTLEKQFQ	QLLSQSNIQQ	SDYSAAALKQC	NREKNRTSSI	IPVERSRVGI	1200
	SSLSGGBTGY	INASYIMGY	QSNFIIITQH	PLLTIKDFW	RMIWDHNAQL	VVMIPDGQNM	1260
	AEDEFYWN	KDEPINCESF	KVTLMAEHKK	CLSNEEKLII	QDFILEATQD	DYVLEVRHFQ	1320
	CPKWNPDSP	ISKTFELISV	IKEEAANRDG	PMIVDEHGG	VTAGTFCALT	TLMHQLEKEN	1380
20	1	11	21	31	41	51	
	1	11	21	31	41	51	
	SVDVYQVAKM	INLMRPGVFA	DIEQYQFLYK	VILSLVSTRQ	EENPSTSLDS	NGAALPDGNI	1440
	AESLESV						1448

Seq ID NO: C312 Protein Sequence
Protein Accession #: XP_031379

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30	1	11	21	31	41	51	
	1	11	21	31	41	51	
	PKASKITFW	GKCNMSSDGS	EHSLEGQKFP	LEMQIYCFDA	DRFSSFEBAV	KGKGLRALS	180
	ILFEVGTEN	LDPKAIDGV	ESVSRFGKQA	ALDPFILLNL	LPNSTDKYI	YNGSLTSPPC	240
	TDTVDMIVFK	DTVSISESOL	AVFCEVLTMO	QSGYVLMMDY	LQNNFREQQY	KFSRQVFSY	300
	TGKEEIHAEV	CSSEPENVQA	DPENYTSLLV	TWERPRVVDY	TMIEKFAVLY	QQLDGEDQTK	360
	HEFLTDGQD	LGAILNNLLP	NMSYVLQIVA	ICTNGLYGYK	SDQLIVDMPT	DNPELDLFFE	420
	LIGTEEIIKE	EEEGKDIEEG	AIVNPGRDSA	TNQIRKKEPQ	ISTTTHYNRI	GTKYNEAKTN	480
35	1	11	21	31	41	51	
	1	11	21	31	41	51	
	RSPTRGSEFS	GKGDVPNTSL	NSTSQPVTKL	ATEKDISLTS	QTVTELPHT	VEGTSASLND	540
	GSKTVLRSPH	MNLSGTAEASL	NTVSITEYEE	ESLLTSFKLD	TGAEDSSGSS	PATSAIPFIS	600
	ENISQGYIFS	SENPTITYD	VLIPESARNA	SEDSTSSGSE	ESLKDPSMEG	NVWFPSSTDI	660
	TAQPDVGSGR	ESFLQNTYTE	IRVDESEKTT	KSPSAGPVMS	QGPSVTDLEM	PHYSTFAYFP	720
	TEVTPHAPT	SSRQQDLVST	VNVVYSQTTQ	PVYNEASNS	HESRIGLAEG	LESEKKAVIP	780
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	LNTTPAASSS	DSALHATPVF	PSVDVSPESI	LSSYDGAPLL	PFSSASFSSSE	LFRHLHTVSQ	840
	ILPQVTSATE	SQKVPLHASL	PVAGDGLLE	PSLAQYSDVL	STTHAASETL	EPGSESGVLY	900
	KTLMSQVEP	PSDDAMHAR	SGGPEPSVAL	SDNEGSQHIF	TVSYSSAIPV	HDSVGVITYQG	960
	SLFSGPSHIP	IPKSSLIPTT	ASLLQPTHAL	SGDGEHSGAS	SDSEFLLPDT	DGLTALNISS	1020
45	1	11	21	31	41	51	
	1	11	21	31	41	51	
	PVSVAEFTY	TSVFGDDNKA	LSKSEIIYGN	ETELQIPSFN	EMVYPSESTV	MPNMYDNVVK	1080
	LNASQNETSV	SISSTKGMFP	GSLAHTTTKV	FDHEISQVPE	NNFSVQPTH	VSQASGDTSL	1140
	KPVLASNEP	ASSDPASSE	LSPSTQLLFY	ETSASFSTEV	LLQPSFQASD	VDTLTKTVLP	1200
	AVPSDPILVE	TPKVDKISST	MLHLIVNSA	SSENMLHSTS	VPVFDVSPTS	HMSASLQGL	1260
	TSYASEKYE	PVLLKSESSH	QVPSLYSND	ELFQTANLEI	NOAHPPKGRH	VFAFPLSID	1320
50	1	11	21	31	41	51	
	1	11	21	31	41	51	
	EPLNTLINK	IHSDEILST	KSSVTGKVFA	GIPTVASDTF	VSTDHSPVIG	NGHVAITAVS	1380
	PHRDGSVTST	KLLPSPKATS	ELSHSAKSDA	GLVGGGEDGD	DDDDGDDDD	DRSGDGLSIH	1440
	KCMSCSTRE	SQKVPLHASL	THENSLMDQN	NPISYSLSEN	SEEDNRVTSV	SSDSQTCMDR	1500
	SPGKSPSANG	LSQKMDGKE	ENDIQTSAL	LPLSPESKAW	AVLTSDRESG	SGQGTSDSLN	1560
	ENSTSTDFSP	ADTNEKQADG	ILAAQDSEIT	PGFPQSPTSS	VISENSEVFH	VSEAEASNS	1620
55	1	11	21	31	41	51	
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	HESRIGLAEG	LESEKKAVIP	LIVSALTFI	CLVVLVGILI	YWRKCFQTAH	PYLESTSPR	1680
	VISTPPTPIF	PISDDVGAIP	IKHFPKHVAD	LHASSGFTTE	FETLKQFYQE	VQSCVTDLGI	1740
	TADSSNHPDN	KHKNYINIV	AYDHSRVKLA	QLAEKQKLT	DYINANYVDG	YNRKAYIAA	1800
	QGPLKSTAE	FWRMIWEHNV	EVIVMITNLV	EKGRRKCDQY	WPADGSEYV	NFLVTQKSVQ	1860
	VLAYTVTRNP	TLRNTKIKKG	SQKGRPSGRV	VTQYHYTQWP	DMGVPEYSLP	VLTFVRKAAY	1920
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	QYVFIDTLV	EAISLKETE	LDSHIHAYVN	ALLIPGPAGK	TKLEKQFOLL	SQSNIQQSDY	2040
	SAALKQCNRE	KRTSGIIPV	ERSRVGISSL	SGEGTDYINA	SYIMGYQSN	EFIITQHPLL	2100
	HTIKDFWMI	WDHNAQLVVM	IPDQGNMAED	EPVYWPKNDE	PINCESFKVT	LMAREHKKLS	2160
	NEEKLIQDF	ILEATQDDYV	LEVRFHQCPK	WPNPDSPISK	TEFLISVIKE	EAANRDGPMI	2220
65	1	11	21	31	41	51	
	1	11	21	31	41	51	
	VHDEHGGVTA	GTFCALTILM	HQLEKENSVD	VYQVAKMINL	MRPGVFADIE	QYQFLYKVIL	2280
	SLVSTRQEN	PSTSLDSNGA	ALPDGNIAES	LESIV			2315

Seq ID NO: C313 Protein Sequence
Protein Accession #: NP_002842

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	QSPINIDEDL	TQVNVNLLKL	KFGQWDKTS	ENTFIHNTGK	TVEINLTNDY	RVSGGVSEMV	120
75	1	11	21	31	41	51	
	1	11	21	31	41	51	
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	ILFEVGTEN	LDPKAIDGV	ESVSRFGKQA	ALDPFILLNL	LPNSTDKYI	YNGSLTSPPC	240
	TDTVDMIVFK	DTVSISESOL	AVFCEVLTMO	QSGYVLMMDY	LQNNFREQQY	KFSRQVFSY	300
	TGKEEIHAEV	CSSEPENVQA	DPENYTSLLV	TWERPRVVDY	TMIEKFAVLY	QQLDGEDQTK	360
	HEFLTDGQD	LGAILNNLLP	NMSYVLQIVA	ICTNGLYGYK	SDQLIVDMPT	DNPELDLFFE	420
	LIGTEEIIKE	EEEGKDIEEG	AIVNPGRDSA	TNQIRKKEPQ	ISTTTHYNRI	GTKYNEAKTN	480
80	1	11	21	31	41	51	
	1	11	21	31	41	51	
	RSPTRGSEFS	GKGDVPNTSL	NSTSQPVTKL	ATEKDISLTS	QTVTELPHT	VEGTSASLND	540
	GSKTVLRSPH	MNLSGTAEASL	NTVSITEYEE	ESLLTSFKLD	TGAEDSSGSS	PATSAIPFIS	600
	ENISQGYIFS	SENPTITYD	VLIPESARNA	SEDSTSSGSE	ESLKDPSMEG	NVWFPSSTDI	660
	TAQPDVGSGR	ESFLQNTYTE	IRVDESEKTT	KSPSAGPVMS	QGPSVTDLEM	PHYSTFAYFP	720
	TEVTPHAPT	SSRQQDLVST	VNVVYSQTTQ	PVYNEASNS	HESRIGLAEG	LESEKKAVIP	780

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VAYDHSRVKL AQLAEKDGKL TDYINANYVD GYNRPKAYIA AQGPLKSTAE DFWRMIWEHN 960
VEVIVMITNL VEGRRKCDQ YWPADGSEY GNFLVTQKSV QVLAAYTVRN FTLRNTKIKK 1020
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TGTYIVLDSM LQIQHEGTN NIFGFLKHIR SQRYLVQTE EQYVFIHDTL VEAILSKETE 1140
VLDSDHAYV NALLIPGPAG KTKLEKQFQL LSQSNIQQSD YSAALKQCNR EKNRTSSIIP 1200
VERSRVGISS LSGEGTDYIN ASYIMGYQS NEFIITQHPL LHTIKDFWRM IWDHNAQLVV 1260
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Seq ID NO: C314 Protein Sequence
Protein Accession #: Eos sequence

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ELIGTEEIK EEEGKDIEB GAIVNPGRDS ATNQIRKEKP QISTTTHYR IGTYNEAKT 480
NRSPTRGSEF SGKGDVPNTS LNSTSQPVTK LATEKDISLT SQTVELPFPH TVEGTSASLN 540
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SENISQGYIF SSENPEITTY DVLIPESARN ASEDSTSSGS EESLKDPSME GNVWFPSSDT 660
ITAQPDVGSF RESFLQNTYT EIRVDESEKT TKSFSAGPVM SQGPSVTDL E MPHYSTFAYF 720
PTEVTPIHFT TVEYQYDLS TVNVVYSQTT QPVYNEASNS SHESRIGLAE GLESEKKAVI 780
PLVIVSALTF ICLVVLVGIL IYWRKCFQTA HFYLEDSTSP RVISTPPTPI FPISDDVGAI 840
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Seq ID NO: C315 Protein Sequence
Protein Accession #: Eos sequence

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HEFLTDGQY DLGAILNLL FNMSYVLQIV AICTNGLYK YSDQLIVDM TONPELDLFP 420
LIGTEEIEB EEEGKDIEB GAIVNPGRDS ATNQIRKEKP QISTTTHYR IGTYNEAKT 480
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TEVTPIHFT TVEYQYDLS TVNVVYSQTT QPVYNEASNS SHESRIGLAE GLESEKKAVI 780
LVIVSALTFI CLVVLVGILI YWRKCFQTA HFYLEDSTSP RVISTPPTPI FPISDDVGAI 840
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Seq ID NO: C316 Protein Sequence
Protein Accession #: Eos sequence

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	TGKEEIHFAV	CSSEPENVAQ	DPENYTSLLV	TWERPRVVDY	TMIEKFAVLY	QQLDGEDQTK	360
	HEFLTDGYQD	LGAILNLLP	NMSYVLQIVA	ICTNGLYGKY	SDQLIVDMPT	DNPEASNSH	420
5	ESRIGLAEGL	ESEKKAIVPL	VIVSALTFFIC	LVVLVGILLY	WRKCFQTAHF	YLEDSTSPRV	480
	ISTPPTPIPF	ISDDVGAIP	KHFPKHVADL	HASSGFTTEF	ETLKEFYQEV	QSCSTVDLGIT	540
	ADSSNHPDNK	HKRYINIVA	YDHSRVKLAQ	LAEKDGKLT	YINANYVDGY	NRPKAYIAAQ	600
	GPLKSTAEF	WRMIWEHNV	VIVMITNLVE	KGRKCDQYW	PADGSEEGN	PLVTQKSVQV	660
	LAYYTVRNFT	LRNTKIKKGS	QKGRPSGRV	TQYHYTQWPD	MGVPEYSLPV	LTFRKAAYA	720
10	KRHAVGPVVV	HCSAGVGRGT	TYIVLDSMLQ	QIQHEGTVNI	FGFLKHRSQ	RNYLVQTEEQ	780
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	EEKLIIQDFI	LEATQDDYVL	EVRFQCPKW	PNDPSISK	FELISVKEE	AANRDGPMIV	1020
15	HDEHGGVTAG	TFCALTLMH	QLEKENSVDV	YQVAKMINLM	RPGVFADIEQ	YQFLYKVILS	1080
	LVSTRQENP	STSLDSNGAA	LPDGNIAESL	ESL			1113

Seq ID NO: C317 Protein Sequence
Protein Accession #: Eos sequence

20	1	11	21	31	41	51	
	MRILKRFLAC	IQLLCVCRID	WANGYYRQQR	KLVEEIGWSY	TGALNQKNWG	KKYPTCNSPK	60
	QSPINIDEDL	TQVNVNLKKL	KFGQWDKTSL	ENTFIHNTGK	TVEINLTNDY	RVSGGVSEMV	120
25	FKASKITFWH	GKCNMSSDGS	EHSLEGQKFP	LEMQIYCFDA	DRPSSFEEAV	KGKGLRLALS	180
	ILFEVGTEN	LDFKAIIDGV	ESVSRFGKQA	ALDPPILLNL	LPNSTDKYYI	YNGSLTSPPC	240
	TDTVDMIVFK	DTVSISESQL	AVFCEVLTMO	QSGYVLMMDY	LQNNFREQQY	KFSRQVFSSY	300
	TGKEEIHFAV	CSSEPENVAQ	DPENYTSLLV	TWERPRVVDY	TMIEKFAVLY	QQLDGEDQTK	360
	HEFLTDGYQD	LGAILNLLP	NMSYVLQIVA	ICTNGLYGKY	SDQLIVDMPT	DNPELDLFFE	420
30	LIGTEEIIKE	EEEGKDIEEG	AIVNPGRDSA	TNQIRKKEPQ	ISTTTHYNRI	GTYKNEAKTN	480
	RSPTRGSEFS	GKGDVNTSL	NSTSQPVTKL	ATEKDISLTS	QTVTELPFHT	VEGTSASLND	540
	GSKTVLRSPH	MNLSGTAESL	NTVSITEYRE	ESLLTSFKLD	TGAEDSSGSS	PATSAIPFIS	600
	ENISQGYIFS	SENPETIITYD	VLIPESARNA	SEDSTSSGSE	ESLKDPSMEG	NWVFPSTDI	660
	TAQPDVGSGR	ESFLQNTYTE	IRVDESEKTT	KSPSAGPVMS	QGPSVTDLEM	PHYSTFAYFP	720
35	TEVTPHAFIP	SSRQQLVST	VNVVYSQTTQ	PVYNEASNS	HESRIGLAEG	LESEKKAIVP	780
	LVIVSALTFFI	CLVVLVGILI	YWRKCFQTAH	FYLEDSTSPR	VISTPPTPIF	PISDDVGAIP	840
	IKHFPKHVAD	LHASSGFTTE	FETLKEFYQE	VQSCSTVDLGI	TADSSNHFDN	KHKRYINIV	900
	AHDHSRVKLA	QLAEKDGKLT	DIYINANYVDG	YNRPKAYIAA	QGFLKSTAEF	FWRMIWEHNV	960
	EVIVMITNLV	EKGRRKCDQY	WPADGSEBYG	NFLVTQKSVQ	VLAYYTVRNFT	TLRNTKIKKG	1020
40	SQKGRPSGRV	VTQYHYTQWP	DMGVPEYSLP	VLTPVRKAAY	AKRHAVGPVV	VHCSAGVGRGT	1080
	GTIIVLDSML	QIQHEGTVNI	IFGFLKHRS	QRNYLVQTEE	QYVFIHDTLV	BAILSKETEVL	1140
	LDSHIHAYVN	ALLIPGPAGK	TKLEKQFQLL	TLSPRLBCRG	TISAHCNLPL	PGLTDPPTSA	1200
	SRVARTILLS	QSNIIQSDYS	AALKQCNREK	NRTSSIIPE	RSRVGSSLS	GEGTDYINAS	1260
	YIMGYQSNB	FIITQHPLH	TIKDFWRMIW	DHNAQLVVM	PDGQMAEDE	FVYWNKDEP	1320
45	INCESFKVTL	MAEHHKCLSN	EEKLIIQDFI	LEATQDDYVL	EVRFQCPKW	PNDPSISK	1380
	FELISVKEE	AANRDGPMIV	HDEHGGVTAG	TFCALTLMH	QLEKENSVDV	YQVAKMINLM	1440
	RPGVFADIEQ	YQFLYKVILS	LVSTRQENP	STSLDSNGAA	LPDGNIAESL	ESL	1493

Seq ID NO: C318 Protein Sequence
Protein Accession #: Eos sequence

50	1	11	21	31	41	51	
	MRILKRFLAC	IQLLCVCRID	WANGYYRQQR	KLVEEIGWSY	TGALNQKNWG	KKYPTCNSPK	60
	QSPINIDEDL	TQVNVNLKKL	KFGQWDKTSL	ENTFIHNTGK	TVEINLTNDY	RVSGGVSEMV	120
55	FKASKITFWH	GKCNMSSDGS	EHSLEGQKFP	LEMQIYCFDA	DRPSSFEEAV	KGKGLRLALS	180
	ILFEVGTEN	LDFKAIIDGV	ESVSRFGKQA	ALDPPILLNL	LPNSTDKYYI	YNGSLTSPPC	240
	TDTVDMIVFK	DTVSISESQL	AVFCEVLTMO	QSGYVLMMDY	LQNNFREQQY	KFSRQVFSSY	300
	TGKEEIHFAV	CSSEPENVAQ	DPENYTSLLV	TWERPRVVDY	TMIEKFAVLY	QQLDGEDQTK	360
60	HEFLTDGYQD	LGAILNLLP	NMSYVLQIVA	ICTNGLYGKY	SDQLIVDMPT	DNPELDLFFE	420
	LIGTEEIIKE	EEEGKDIEEG	AIVNPGRDSA	TNQIRKKEPQ	ISTTTHYNRI	GTYKNEAKTN	480
	RSPTRGSEFS	GKGDVNTSL	NSTSQPVTKL	ATEKDISLTS	QTVTELPFHT	VEGTSASLND	540
	GSKTVLRSPH	MNLSGTAESL	NTVSITEYRE	ESLLTSFKLD	TGAEDSSGSS	PATSAIPFIS	600
	ENISQGYIFS	SENPETIITYD	VLIPESARNA	SEDSTSSGSE	ESLKDPSMEG	NWVFPSTDI	660
65	TAQPDVGSGR	ESFLQNTYTE	IRVDESEKTT	KSPSAGPVMS	QGPSVTDLEM	PHYSTFAYFP	720
	TEVTPHAFIP	SSRQQLVST	VNVVYSQTTQ	PVYNEASNS	HESRIGLAEG	LESEKKAIVP	780
	LVIVSALTFFI	CLVVLVGILI	YWRKCFQTAH	FYLEDSTSPR	VISTPPTPIF	PISDDVGAIP	840
	IKHFPKHVAD	LHASSGFTTE	FETLKEFYQE	VQSCSTVDLGI	TADSSNHFDN	KHKRYINIV	900
	AYDHSRVKLA	QLAEKDGKLT	DIYINANYVDG	YNRPKAYIAA	QGFLKSTAEF	FWRMIWEHNV	960
70	EVIVMITNLV	EKGRRKCDQY	WPADGSEBYG	NFLVTQKSVQ	VLAYYTVRNFT	TLRNTKIKKG	1020
	SQKGRPSGRV	VTQYHYTQWP	DMGVPEYSLP	VLTPVRKAAY	AKRHAVGPVV	VHCSAGVGRGT	1080
	GTIIVLDSML	QIQHEGTVNI	IFGFLKHRS	QRNYLVQTEE	QYVFIHDTLV	BAILSKETEVL	1140
	LDSHIHAYVN	ALLIPGPAGK	TKLEKQFQLL	QSNIIQSDY	SAALKQCNRE	KNRTSSIIPE	1200
	ERSRVGSSLS	GEGTDYINAS	SYIMGYQSN	EFIIITQHPLH	HTIKDFWRMI	WDHNAQLVVM	1260
75	IPDGQMAED	FVYWNKDEP	PINCESFKVT	LMAEHHKCLS	NBEKLIQDFI	ILEATQAWRS	1320
	DGRNFLCSN	PYAPTFRKRF	RGCLFGSQDD	QSDARSCLC			1359

Seq ID NO: C319 Protein Sequence
Protein Accession #: XP_002914.4

80	1	11	21	31	41	51	
	MKDIDIGKEY	IIPSPGYRSV	RERTSTSGTH	RDREDSKFR	TRPLECQDAL	ETAARAEGLS	60
	LDASMSQLR	ILDEEHPKKG	YHHGLSALKP	IRTTSKHQHP	VDNAGLPSCM	TFSWLSSSLR	120
	VAHKKGELSM	EDVWSLSKHE	SSDVNCRRLB	RLWQEBELNEV	GPDAASLRV	VWIFCRTRLI	180

5 LSIVCLMITQ LAGSPGPAFM VKHLEYTQA TESNLQYSLL LVIGLLLEI VRSWSLALTW 240
 ALNYRTGVRL RGAILTMAFK KILKLNKIKE KSLGELINIC SNDGQRMPEA AAVGSLLAGG 300
 PVVAIIGMIY NVIIIGPTGF LGSVAVFILFY PAMMFASRLT AYFRKRCVAA TDERVQKME 360
 VLTYYKFIKM YAWVKAQSQS VQKIREEERR ILEKAGYFQS ITVGVAPIVV VIASVVTFSV 420
 HMTLGFDLTA AQAFVTVTVP NSMTFALKVT PFSVKLSSEA SVAVDRFKSL FLMBEVHMIK 480
 NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTTPMKKDK RASRGKKEKV RQLQRTHEQA 540
 VLAQKQGHLL LDSDERPSPE EEBGKHILG HLRLQRTLHS IDLEIQEGKL VGICGVSQSG 600
 KTSLSAILG QMTLLGSGIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS 660
 10 CCLRPDLAIL PSSDLTEIGE RGANLSCGQR QRISLARALY SDRSIYILDD PLSALDAHV 720
 NHIFNSAIRK HLKSKTVLTV THQLQYLVDV DEVIFMKEGC ITERGTHEEL MNLNGDYATI 780
 FNNLLGETP PVEINSKKEK SGSQKKSQDK GPKTGSVKKE KAVKPEEGQL VQLEEKQGS 840
 VPWSVYGVYI QAAGGLPFL VIMALFMLNV GSTAFSTWWL SYWIKQSGSN TTVTRGNETS 900
 VSDSMKDNPH MQYYASIAL SMAVMLILKA IRGVVFKGT LRASSRLHDE LFRRLRSPM 960
 15 KFFDTTPTGR ILNRFKSDMD EVDVRLPFQA EMFIQNVILV PFCVGMIAGV PFWFLVAVGP 1020
 LVILFSLVLI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL 1080
 LDDNQAPFPL FTCAMRWLAV RDLISIALI TTTGLMIVLM HQQIPPAYAG LAISYAVQLT 1140
 GLFQFTVRLA SETEARFTSV ERINHYIKTL SLEAPARIKN KAPSPDWQGE GEVTFENAEM 1200
 RYRENLPVLV KKVSTTIKPK EKIGIVGRTG SGKSSLGMAI FRLVELSGGC IKIDGVRISD 1260
 20 IGLADLRSLK SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE 1320
 SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLIQE TIREAFADCT 1380
 MLTIAHRLHT VLGSRLIMVL AQGQVVEFDT PSVLLSNDSS RPYAMFAAAE NKVAVKG 1437

Seq ID NO: C320 Protein Sequence
Protein Accession #: NP_005679.1

25 1 11 21 31 41 51
 MKDIDIGKEY IIPSPGYRSV RERTSTSGTH RDREDSKFRR TRPLECQDAL ETAARAEGLS 60
 LDASHMSQLR ILDEEHPKGG YHGLSALKP IRTTSKHQHP VDNAGLPSCM TFSWLSLAR 120
 30 VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQBELNEV GPDAASLRV VWIFCTRILI 180
 LSIVCLMITQ LAGSPGPAFM VKHLEYTQA TESNLQYSLL LVIGLLLEI VRSWSLALTW 240
 ALNYRTGVRL RGAILTMAFK KILKLNKIKE KSLGELINIC SNDGQRMPEA AAVGSLLAGG 300
 PVVAIIGMIY NVIIIGPTGF LGSVAVFILFY PAMMFASRLT AYFRKRCVAA TDERVQKME 360
 35 VLTYYKFIKM YAWVKAQSQS VQKIREEERR ILEKAGYFQS ITVGVAPIVV VIASVVTFSV 420
 HMTLGFDLTA AQAFVTVTVP NSMTFALKVT PFSVKLSSEA SVAVDRFKSL FLMBEVHMIK 480
 NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTTPMKKDK RASRGKKEKV RQLQRTHEQA 540
 VLAQKQGHLL LDSDERPSPE EEBGKHILG HLRLQRTLHS IDLEIQEGKL VGICGVSQSG 600
 KTSLSAILG QMTLLGSGIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS 660
 40 CCLRPDLAIL PSSDLTEIGE RGANLSCGQR QRISLARALY SDRSIYILDD PLSALDAHV 720
 NHIFNSAIRK HLKSKTVLTV THQLQYLVDV DEVIFMKEGC ITERGTHEEL MNLNGDYATI 780
 FNNLLGETP PVEINSKKEK SGSQKKSQDK GPKTGSVKKE KAVKPEEGQL VQLEEKQGS 840
 VPWSVYGVYI QAAGGLPFL VIMALFMLNV GSTAFSTWWL SYWIKQSGSN TTVTRGNETS 900
 VSDSMKDNPH MQYYASIAL SMAVMLILKA IRGVVFKGT LRASSRLHDE LFRRLRSPM 960
 45 KFFDTTPTGR ILNRFKSDMD EVDVRLPFQA EMFIQNVILV PFCVGMIAGV PFWFLVAVGP 1020
 LVILFSLVLI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL 1080
 LDDNQAPFPL FTCAMRWLAV RDLISIALI TTTGLMIVLM HQQIPPAYAG LAISYAVQLT 1140
 GLFQFTVRLA SETEARFTSV ERINHYIKTL SLEAPARIKN KAPSPDWQGE GEVTFENAEM 1200
 RYRENLPVLV KKVSTTIKPK EKIGIVGRTG SGKSSLGMAI FRLVELSGGC IKIDGVRISD 1260
 50 IGLADLRSLK SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE 1320
 SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLIQE TIREAFADCT 1380
 MLTIAHRLHT VLGSRLIMVL AQGQVVEFDT PSVLLSNDSS RPYAMFAAAE NKVAVKG 1437

Seq ID NO: C321 Protein Sequence
Protein Accession #: NP_005553.1

55 1 11 21 31 41 51
 MPALWLGCC LFSLLPAAR ATSRREVCDC NGKSRQCIFD RELHRTQNG PRCLNCNDNT 60
 DGIHCEKCKN GFYRHRERDR CLPCNCNSKG SLSARCDNSG RCSCKPGVTG ARCDRLPGF 120
 60 HMLTDAGCTQ DQRLDLSKCD CDPAGIAGPC DAGRCVCKPA VTGERCDRCR SGYYNLDGGN 180
 PEGCTQCFYI QHSASCRSSA EYSVEKITST PHQDVGWKA VQRNGSPAKL QWSQRHQDVF 240
 SSAQRLDPVY FVAPAKFLGN QQVSYGQSL SFDYRVDGRG HPSAHDVILE GAGLRITAPL 300
 MPLKTLPCG LTKYTTPLRN EHPNNWSPQ LSYFEYRRL RNLTLRIRA TYGEYSTGYI 360
 65 DNVTLISARP VSGAPAPWVE QCICPVGYKG QPCQDCASGY KRDSARLGPF GTCIPNCQG 420
 GGACDPDTGD CYSGDENPDI ECADCPIGFY NDPDPRSCCK PCPCNNGFSC SVMPETEEVV 480
 CNNCPGPGVT ARCELADGY FGDPPGEHGP VRFCQPCQCN NVVDPSASGN CDRLTGRCLK 540
 CIHNTAGIYC DQCKAGYFGD PLAPNPADKC RACNCPMGS EPVGCSDGT CVCKPFGGSP 600
 NCEHGAFSCP ACYNQVKITQ DMFMQQLQRM EALISKAQGG DGVVPDTELE GRMQQAEQAL 660
 70 QDILRDAQIS EGASRLGLQ LAKVRSQENS YQSRLLDLKM TVERVRLGS QYQNRVRDTH 720
 RLITQMLSL AESEASLNT NIPASDHYVG PNGFKSLAQE ATRLAESHVE SASNMQLTR 780
 ETEDYSKQAL SLVRKALHEG VSGSGSPDG AVVQGLVEKL EKTSLAQQL TREATQAEIE 840
 ADRSYQHSRL LLDVSRLLQG VSDQSFOVEE AKRIKQKADS LSTLVTRHMD EPKRTQKNLG 900
 NWKEBAQQL QNGKSGREKS DQLSRANLA KSRAQEAISM GNATPYEVES ILKNLEFIDL 960
 75 QVDNRKAEAE EAMKRLSYIS QKVSDASDKT QQAERALGSA ADAQRAKNG AGEALEISSE 1020
 IQEIGSLNL EANTVADGAL AMEKGLASLK SEMREVEGEL ERKELEFDTN MDAVQMVITE 1080
 AQKVDTRAKN AGVTIQDTLN TLDGLLHMD QPLSVDEEGL VLEQKLSRA TKQINSQLRP 1140
 MMSELEERAR QQRGHLHLE TSIDGILADV KNLENIRDNL PPGCYNTQAL EQQ 1193

80 Seq ID NO: C322 Protein Sequence
Protein Accession #: NP_066924.1

1 11 21 31 41 51
 MANAGLQLLG FILAFLGWIG AIVSTALPQW RIYSYAGDNI VTAQAMYEG LWMSCVSQSTG 60

QIQCKVFDLSL LNLSSLTQAT RALMVVGILL GVIAIFVATV GMKCMKCLEDEVOXMRMAV 120
 IGGAIFFLAG LAILVATAWY GNRIVQEFYD PMTPVNARYE FGQALFTGWA AASLCLLGA 180
 LLCCSCPRTK TSYPTPRYP KPAPSSGKDY V 211

5 Seq ID NO: C323 Protein Sequence
 Protein Accession #: AAM77876

	1	11	21	31	41	51	
10	MSSWIRWHGP	AMARLWGFCW	LUVGFWRAAF	ACPTSCCKSA	SRIWCSDPSP	GIVAFPRLEP	60
	NSVDPENITE	IFIANQKRLE	IINEDDVEAY	VGLRNLITVD	SGLKFVAHKA	FLKNSNLQHI	120
	NFTRNKLTSL	SRKHFRHLDL	SELILVGNPP	TCSCDIMWIK	TLQEAQSSPD	TQDLYCLNES	180
	SKNIPLANLQ	IPNCGLPASN	LAAPNLTVEE	GKSITLSCSV	AGDPVFNMYW	DVGNLVSKHM	240
15	NETSHTQSSL	RITNISSDDS	GKQISCAVEN	LVGEDQDSVN	LTVHFAPTIT	FLESPTSDDH	300
	WCIPFTVKGN	KPKALQWFYN	GAILNESKYI	CTKIHVTNHT	EYHGCLQLDN	PTHMNGDYT	360
	LIARNEYGKD	EKQISAHFMG	WPGIDDGANP	NYPDVIYEDY	GTAANDIGDT	TNRSNEIPST	420
	DVTDKTGREH	LSVYAVVVIA	SVVGFCLLVM	LFLKLARHS	KFGMKGVFLF	HKIPLDGL	477

20 Seq ID NO: C324 Protein Sequence
 Protein Accession #: NP_006171.1

	1	11	21	31	41	51	
25	MSSWIRWHGP	AMARLWGFCW	LUVGFWRAAF	ACPTSCCKSA	SRIWCSDPSP	GIVAFPRLEP	60
	NSVDPENITE	IFIANQKRLE	IINEDDVEAY	VGLRNLITVD	SGLKFVAHKA	FLKNSNLQHI	120
	NFTRNKLTSL	SRKHFRHLDL	SELILVGNPP	TCSCDIMWIK	TLQEAQSSPD	TQDLYCLNES	180
	SKNIPLANLQ	IPNCGLPASN	LAAPNLTVEE	GKSITLSCSV	AGDPVFNMYW	DVGNLVSKHM	240
	NETSHTQSSL	RITNISSDDS	GKQISCAVEN	LVGEDQDSVN	LTVHFAPTIT	FLESPTSDDH	300
30	WCIPFTVKGN	KPKALQWFYN	GAILNESKYI	CTKIHVTNHT	EYHGCLQLDN	PTHMNGDYT	360
	LIARNEYGKD	EKQISAHFMG	WPGIDDGANP	NYPDVIYEDY	GTAANDIGDT	TNRSNEIPST	420
	DVTDKTGREH	LSVYAVVVIA	SVVGFCLLVM	LFLKLARHS	KFGMKGPASV	ISNDDDSASP	480
	LHHISNGSNT	PSSEGGGPD	VIIGMTKIPV	IENPQYFGIT	NSQLKPDTEV	QHIKRHNIVL	540
	KRELGEAGFG	KVFLAECYNL	CPEQDKILVA	VKTLDKADSN	ARKDPHREAS	LLTNLQHEHI	600
35	VKPYGVCVEG	DPLIMVFEYM	KHGDNLKFLR	AHGPDVAVMA	EGNPFTELTQ	SOMLHIAQOI	660
	AAGMVLASQ	HFVHRDLATR	NCLVGENLLV	KIGDFGMSRD	VYSTDYRVG	GHTMLPIRWM	720
	PPESIMYRKF	TTESDVWSLG	VVLWEIFTYG	KQPWYQLSN	EVIECITQGR	VLQRPRTCPQ	780
	EYVELMLGCW	QREPHMRKNI	KGIHTLLQNL	AKASPVYLDI	LG		822

40 Seq ID NO: C325 Protein Sequence
 Protein Accession #: Eos sequence

	1	11	21	31	41	51	
45	MSSWIRWHGP	AMARLWGFCW	LUVGFWRAAF	ACPTSCCKSA	SRIWCSDPSP	GIVAFPRLEP	60
	NSVDPENITE	IFIANQKRLE	IINEDDVEAY	VGLRNLITVD	SGLKFVAHKA	FLKNSNLQHI	120
	NFTRNKLTSL	SRKHFRHLDL	SELILVGNPP	TCSCDIMWIK	TLQEAQSSPD	TQDLYCLNES	180
	SKNIPLANLQ	IPNCGLPASN	LAAPNLTVEE	GKSITLSCSV	AGDPVFNMYW	DVGNLVSKHM	240
	NETSHTQSSL	RITNISSDDS	GKQISCAVEN	LVGEDQDSVN	LTVHFAPTIT	FLESPTSDDH	300
50	WCIPFTVKGN	KPKALQWFYN	GAILNESKYI	CTKIHVTNHT	EYHGCLQLDN	PTHMNGDYT	360
	LIARNEYGKD	EKQISAHFMG	WPGIDDGANP	NYPDVIYEDY	GTAANDIGDT	TNRSNEIPST	420
	DVTDKTGREH	LSVYAVVVIA	SVVGFCLLVM	LFLKLARHS	KFGMKGVFLF	HKIPLDGL	477

55 Seq ID NO: C326 Protein Sequence
 Protein Accession #: NP_570843.1

	1	11	21	31	41	51	
60	MPLKHYLLLL	VGCQAWGAGL	AYHGCPSCT	CSRASQVCT	GARIVAVPTP	LPWNAMSLQI	60
	LWTHITELNE	SPFLNISALI	ALRIEKNELS	RITPGAFRNL	GSLRYLSLAN	NKLQVLPIGL	120
	FQGLDSLBSL	LLSSNQLLQI	QPAHFSQCSN	LKELQLHGNH	LEYIPDGAFD	HLVGLTKLNL	180
	GKNSLTHISP	RVFQHLGNLQ	VLRLYENRLT	DIPMGTFDGL	VNLQELALQQ	NQIGLLSPGL	240
	FHNHNLQRL	YLSNNHISQL	PPSIFMQLPQ	LNRLTLFGNS	LKELSLGIFG	PMENLRELWL	300
	YDNHISLDP	NVFSNLRQLQ	VLILSRNQIS	FISPGAFNGL	TELRELSLHT	NALQDLDCNV	360
65	FRMLANLQNI	SLQNNRLRQL	PGNIFANVNG	LMAIQLQNNQ	LENLPLGIFD	HLGKLCLERL	420
	YDNPWRCDS	ILPLRNWLLL	NQPRLGTDIT	PVCFSPANVR	QGSLLIINVN	VAVPSVHVPE	480
	VPSYPETPWY	PDTSPYDPTT	SVSSTTELTS	PVEDYDILT	IQVTDSDRSVW	GMTQAQSGLA	540
	IAAIVIGIVA	LACSLAACVG	CCCCCKRSQA	VLMQMKAPNE	C		581

70 Seq ID NO: C327 Protein Sequence
 Protein Accession #: NP_002649.1

	1	11	21	31	41	51	
75	MRALLARLLL	CVLVVSDDSG	SNELHQVPSN	CDCLNGGTCV	SNKYFSNIHW	CNCPKKFGGQ	60
	HCEIDKSKTC	YBNGHGFYRG	KASTDTMGRP	CLPWNSATVL	QQTYHAHRSD	ALQLGLGKH	120
	YCRNPENRRR	PWCYVQVGLK	PLVQECMVHD	CADGKKPSSP	PEELKFQCGQ	KTLRPRPKII	180
	GGFEFTTIENQ	PWFPAIYRRH	RGGSVTYVCG	GSLISPCWVI	SATHCFIDYP	KKEDYIVYLG	240
	RSRLNSNTQG	ENKFEVENLI	LHKDYSADTL	AHENDIALLK	IRSEKGRCAQ	PSRTIQTICL	300
80	PSMYNDPQFG	TSCEITGPGK	ENSTDYLYPE	QLKMTVVKLI	SHRECCQPHY	YGSEVTTKML	360
	CAADPQWKTD	SCQDSSGGPL	VCSLQGRMTL	TGIVSWGRGC	ALKDKPGVYT	RVSHFLPWIR	420
	SHTKEENGLA	L					431

Seq ID NO: C328 Protein Sequence
 Protein Accession #: XP_087254.1

	1	11	21	31	41	51	
5	MQFRECSING	MYQOEINGRL	VPEGPTPDSS	EGNLSYLSL	SHLNNLSHLT	TSSSPRTSPE	60
	NETELIKEHD	LPFAVSLCH	TVQISNVQTD	CTGDGPMQSN	LAPSQLEYA	SSPDEKALVE	120
	AAARIGIVFI	GNSEETMEVK	TLGKLEKYKL	LHILEFDSDR	RRMSVIVQAP	SGEKLLPAKG	180
	AESSILPKCI	GGIEKTRIH	VDEFALKGLR	TLCIAYRKFT	SKYEEDDKR	IFEARTALQQ	240
	REEKLAAVFQ	FIKDLILLG	ATAVEDRLQD	KVRETIEALR	MAGIKVWVLT	GDKHETAVSV	300
10	SLSCGHFHRT	MNILELINQK	SDSECAEQLR	QLARRITEDH	VIQHGLVVDG	TSLSLALREH	360
	EKLFMVSCRN	CSAVLCCRMA	PLQKAKVIRL	IKISPEKPIT	LAVGDGANDV	SMIQEAHVGI	420
	GIMGKEGRQA	ARNSDYAIAR	PKFLSKLLFV	HGHFYIRIA	TLVQYFFYQN	VCFITPQFLY	480
	QFYCLFSQQT	LYDSVYLTLY	NICFTSLFIL	IYSLLEQHVD	PHVLQNKPTL	YRDISKNRL	540
	SIKTFLYWTI	LGFSHAFIFP	FGSYLLIGKD	TSLLGNGQMF	GNWTFGLVLF	TVMVITVTVK	600
15	MALETHFWTW	INHLVTWGS	IFYFVFSLPY	GGILNPFLGS	QNMVVFVQL	LSSGSANFAI	660
	ILMVVTCFL	DIKKVDFDRH	LHPTSTKKAQ	LTETNAGIKC	LDSMCCFPEG	EAACASVGRM	720
	LERVIGRCSP	THISRSWSAS	DPFYTNDRSI	LTLSTMSST	C		761

Seq ID NO: C329 Protein Sequence
Protein Accession #: XP_087461.1

	1	11	21	31	41	51	
20	MLPPLAALLA	AACPPLPPVRG	GAADAPGLLG	VPSNASVNAS	SAASPSPRGC	WPRRPFGPPS	60
	ARARRRRRRR	RRLCNISVQR	QMLSSLLVRW	GRPRGFCQDL	LLPSTNAHGR	AFFAAAFHVR	120
25	GPPLLIHLLG	LAAGGAQDDL	RLCVGCGWVR	GRRTGRLRPA	AAPSAATA	GAPTALPAYP	180
	AAEPFGLML	QGEPLHFCCL	DFSLEELQGE	PGWRLNRKPI	ESTLVACFMT	LVIIVWSVAA	240
	LWVPPIIAG	FLPNGMEQRR	TTASTTAATP	AAVPAAGTAA	AAAAAAAAAA	AVTSGVATK	299

Seq ID NO: C330 Protein Sequence
Protein Accession #: XP_051522.2

	1	11	21	31	41	51	
35	MDLHLFDYSE	PGNFSDISWP	CNSSDCIVVD	TVMCPNMPNK	SVLLYTLSEI	YIFIFVIGMI	60
	ANSVVVVVNI	QAKTGTGYDTH	CYILNLAIAD	LWVVLTPVW	VVSLVQHNQW	PMGELTCKVT	120
	HLIFSINLPG	SIFFLTICMSV	DRYLSITYFT	NTPSSRKKMV	RRVVCILVWL	LAFCVSLPDT	180
	YYLKTVTSAS	NNETYCRSFY	PEHSIKEWLI	GMELVSVVLG	FAVVFSSIAV	FYFLARAI	240
	ASSDQEKHSS	RKIIFSYVUV	FLVCWLPYHV	AVLLDIFSIL	HYIPFTCRLE	HALFTALHVT	300
40	QCLSLVHCCV	NFVLYSFINR	NYRYELMKAF	IFKYSAKTGL	TKLIDASRV	ETEYSALEQS	360
	TK						362

Seq ID NO: C331 Protein Sequence
Protein Accession #: NP_000341.1

	1	11	21	31	41	51	
45	MGEVRIQQL	LMKNWTLRKR	QKIRFVVELV	WPLSLFLVLI	WLARNANPLYS	HHECHFENKA	60
	MPSAGMLPWL	QGIFCNVNNP	CFQSPTPGES	PGIVSNYNN	ILARVYRDFQ	ELLMNAPESQ	120
50	HLGRIMTELH	ILSQFMDTLR	THPERIAGRG	IRIRDILKDE	ETLTLFLIKN	IGLSDSVVYL	180
	LINSQVRPEQ	FANGVVDLAL	KDIACSEALL	ERFIIFSQRR	GAKTVRYALC	SLSQGTQLWI	240
	EDTLVANVDF	FKLFRVLPPL	LDSRSQGINL	RSWGILSDM	SPRIQEPIHR	PSMQDQLWVT	300
	RPLMNGGPE	TFTKLMGILS	DLGCVPEGG	GSRVLSFNMY	EDMNYKAFGL	IDSTRKDIPI	360
	SYDRRTTSFC	NALIQSLESN	PLTKIAMRAA	KPLLMGKILY	TDSPAAARRI	LKNANSTFEE	420
55	LEHVRLVKA	WBEVGQIWIY	PFDNSTQMNM	IRDTLGNPTV	KDFLNRQLGE	EGITAEAILN	480
	FLYKGPRESQ	ADDMANFDR	DIFNITDRTL	RLVNQYLECL	VLDKFESYND	ETQLTQRALS	540
	LLEENMFAG	VFFDMYPMW	SSLPPHVKYK	IRMDIDVVEK	TNKIKDRYWD	SGPRADPVED	600
	FRYIWGGPAY	LQDMVEQGIT	RSQVQAEAPV	GIYLLQMPYP	CFVDDSPFMI	LNRCPFIIMV	660
	LAMIVSVSMT	VKSIVLEKEL	RLKETLQNG	VSNVAVINCTW	FLDSFSIMSM	SIFLLTIFIM	720
60	HGRILHYSDP	PILFLFLAP	STATIMLCFL	LSTPFSKASL	AAACSGVIYF	TLYLPHILCF	780
	AWQDRMTAEL	KKAVSLSPV	AFGFGTEYLV	RFEQGLGLQ	WSNIGNSPTE	GDBFSPFLSM	840
	QMMLDAACY	GLLAWYLDQV	PPGDYGTPLP	WYFLLOESYV	LSGEGCSTRE	ERALEKTEPL	900
	TEETEDPEHP	EGIHDSFFER	EHPGWVPGVC	VKNLVKIFEP	CGRPAVDRLN	ITFYENQITA	960
	FLHNGAGKT	TTLISILTGLL	PPTSGTVLVG	GRDIETSLDA	VROSLGMCPO	HNILFHHLTV	1020
65	AEHMLFYAQL	KGKSEQEAAQL	EMEAMLEDTG	LHHKRNEBAQ	DLSGGMQRKL	SVAIAPVGDA	1080
	KVVILDEPTS	GVDPYSRRSI	WDLKKYRSG	RTIIMPTHRM	DEADHQGDRI	AIIAQGRLYC	1140
	SGTPLFLKNC	FGTGLYLTIV	ROMKNIQSQR	KGSEGTCSGS	SKGFTTCTPA	HVDDLTPEQV	1200
	LDGVDNLMMD	VVLHVPEAK	LVEICIGELI	FLLPNKNFKH	RAYASLFREL	EETLADLGLS	1260
	SFGISDTPLE	EIFLKVTESD	DSGPLFAGGA	QOKRENVNPR	HPCLGPREKA	GQTPQDSNVC	1320
70	SPGAPAAHPE	GQPPPEPECP	GPQLNTGTQL	VLQHVQALLV	KRFQHTIRSH	KDPLAQIVLP	1380
	ATFVFLALML	SIVILPFGEY	PALTLPWMIY	GQYTFFSMD	EPGSEQFTVL	ADVLLNKPFG	1440
	GNRCLKEGWL	PEYPCGNSTP	WKTSPSVFNI	TQLFQKQKWT	QVNPSPSCRC	STREKLTMPL	1500
	ECPEGAGGLE	PPQRTQRSTE	ILQDLTDENI	SDFLVKTYPA	LIRSSLKSKF	WVNEQRYGGI	1560
	SIGGKLPVVP	ITGEALVGFL	SDLGRIMNVS	GGPITREASK	EIPDFLKHLE	TEDNIKVMFN	1620
75	NKGWHALVSF	LNVAHNAILR	ASLPKDRSPE	EYGITVISQP	LNLTKRELSE	ITVLTTSVDA	1680
	VVAICVIFSM	SFVPASPVLY	LIQERVNKS	HLQFISGVSP	TTYVWTFNLW	DIMNYSVSAG	1740
	LUVGIFIGFQ	KKATYSPENL	PALVALLLLY	GWAVIPMMYP	ASFLFDVDPST	AYVALSCANL	1800
	FIGINSSAIT	PILLELFDNMR	TLLRFNAVLR	KLLIVFPFHC	LGRGLIDLAL	SQAVTDVYAR	1860
	FGSEHSANPF	HWDLIGKNLF	AMVVEGVVVF	LLTLVQRHF	FLSQWIAEPT	KEPIVDEDDD	1920
80	VAERQRIIT	GNKNTDILRL	HELTIRYLG	SSPAVDRLCV	GVRPGBCFGL	LGWNGAGKTT	1980
	TFKMLTGDTT	VTSQDATVAG	KSILTNISEV	HQNMGYCPQF	DAIDELLTGR	EHLYLYARLR	2040
	GVPAEIEIKS	ANWSIKSLGL	TVYADCLAGT	YSGGNKRKLS	TAIALIGCPP	LVLLDEPTTG	2100
	MDPQARRMLN	NVIVSIRKRG	RAVVLTSISM	EECEALCTRL	AIMVKGAFCR	MGTIOHLKSK	2160
	FGDGIVITMK	IKSPKDDLLP	DLNPVEQFFQ	GNFPQSVQRE	RHYNMLQFQV	SSSLARIFQ	2220
	LLLSHRDSSL	IEEYSVTQTT	LQQVFNFAK	QQTESHDLPL	HPRAAGASRQ	AQD	2273

Seq ID NO: C332 Protein Sequence
Protein Accession #: NP_006662.2

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5      1      11      21      31      41      51
|      |      |      |      |      |
MVPHAILARG RDVCRNGLL ILSVLSVIVG CLLGFFLRTR RLSPQEISYP QFPGELLMRM 60
LKMMLPLVIV SSLMSGSLAS DAKTSSRLGV LTVAYYLWTT FMAVIVGIFM VSIHPGSAA 120
QKETTEQSGK PIMSSADALL DLIRNMFPAN LVEATFKQYR TKTFPVVKSP KVAPPEAPPR 180
10     RILIYGVQEE NGSHVQNQFAL DLTTPPEVVY KSEPTSDGDM NVLGIVFFSA TMGIMLGRMG 240
DSGAPLVSFQ QCLNESVMKI VAVAVWYFPF GIVFLIAGKI LEMDDPRAVG KKLGFYSYTV 300
VCGLVLHGLF ILPLLYFFIT KKNPIVFIRG ILQALLIALA TSSSSATLPI TFKCLLENNH 360
IDRRIARFVL PVGATINMDG TALYEAVAAI FIAQVNNYEL DFGQIITISI TATAASIGAA 420
15     GIPQAGLVTM VIVLTSVGLP TDDITLIIAV DMALDRFRMT INVLGDALAA GIMAHICRKO 480
PARDTGTGKEL LFCETKPVSL QEIVAAQONG CVKSVARASE LTLGPTCPHH VPVQVERDEE 540
LPAASLAHCTV IQISELETNV

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Seq ID NO: C333 Protein Sequence
Protein Accession #: NP_005680.1

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20     1      11      21      31      41      51
|      |      |      |      |      |
MVTVGNYCEA EGFVGPAMQW DGLSPCFFFT LVPSTRMALG TLALVLALPC RRRERFAGAD 60
SLSWGAGPRI SPYVLQLLLA TLQAALPLAG LAGRVGTARG APLPSYLLLA SVLESAGAC 120
25     GLWLLVVERS QARQRLAMGI NIKPRHSPGL LLLWTVAFAA ENLALVSNNS PQWWARADL 180
GQVQVPSLWV LRYVVSGLLF VLGLWAPGLR PQSYTLQVHE EDQDVERSQV RSAAQQTWR 240
DFGRKRLRLS GYLWPRGSPA LQLVVLICLG LMGLEALNV LVPIFYRNIV NLLTEKAPWN 300
SLAWTVTSYV FLKPLQGGGT GSTGFVSNLR TFLWIRVQOF TSRRVELLIF SHLHELRLW 360
30     HLGRRTGEVL RIADRGTSV TGLLSYLVEN VIPTLADIII GIIFYSMFFN AWFGLIVFLC 420
MSLYLTITIV VTEWRTKFRR AMNTQENATR ARAVDSLLNP ETVKYNAES YEVEYREAI 480
IKYQGLEWKS SASVLINQNT QNLVIGLGLL AGSLLCAYFV TEQKLQVGDI VLPPTYIIQL 540
YMLPLNWFQTY YMIQTNFID MEMNFDLLKE ETEVKDLPGA GPLRFQKGR I SPENVHFSYA 600
DGRETLQDVS FTVMPQTLA LVGPGSGAGS TILRLLEFRY DISSGCIRID QDISQVTOA 660
35     SLRSHIGVVP QDTVLFNQTI ADNIRYGRVT AGNDEVEAAA QAAGIHDAIM AFPEGYRTQV 720
GERGKLSGG EKQWVAIART ILKAPGIILL DEATSALDTS NERAIQASLA KVCANRTTIV 780
VAHRLSTVFN ADQILVIKDG CIVERGRHEA LLSRGGVYAD MWQLQQGQEE TSEDTPQTM 842
ER

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Seq ID NO: C334 Protein Sequence
Protein Accession #: NP_000667.1

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40     1      11      21      31      41      51
|      |      |      |      |      |
MLLETQDALY VALELVIAAL SVAGNVLVCA AVGTANTLQT PTNYFLVSLA AADVAVGLFA 60
45     IPFAITISLG FCTDFYGLCF LACFVLVLQV SSIFSLAVA VDRYLAICVP LRYKSLVTGT 120
RARGVIAVLW VLAFFIGLTP FLGWNKSDSA TNNCTEPWDG TTNESCLLVK CLFENVVPM 180
YMYVPMFPGC VLPPLILMLV IYIKIFLVAC RQLQRTLMQ HSRTTLQREI HAAKSLAMIV 240
GFALCWLFPV HAVNCVILPQ PAQGNKPKW AMNMAILLSH ANSVNPIVY AYRNRDFRYT 300
50     FHKIIISRYLL CQADVKSNGG QAGVQPALGV GL
332

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Seq ID NO: C335 Protein Sequence
Protein Accession #: NP_443164

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55     1      11      21      31      41      51
|      |      |      |      |      |
MGLGARGAWA ALLGLTLQVL ALLGAAHESA AMAETLQHVP SDHTNETSNS TVKPPTSVAS 60
DSNNTVTYTM KPTAASNTIT PGMVSTNMTS TTLKSTPKTT SVSQNTSQIS TSTMTVTENS 120
SVTSAASSVT ITTMTMSEAK KGSKFDTGSP VGGIVLTLGV LSILYIGCKM YYSRRGIRYR 180
60     TIDEHDAII
189

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Seq ID NO: C336 Protein Sequence
Protein Accession #: NP_004186.1

```

65     1      11      21      31      41      51
|      |      |      |      |      |
MAQHGMAGAF RALCGLALLC ALSLGQRPTG GPGCGPGRLL LGTGTARCC RVHTTRCCRD 60
YPGECCSEW DCMCVQPEFH CGDPCCTTCR HHPCPPGGV QSQKFSFGF QCIDCASGTF 120
SGGHEGHCKP WTDCTQFGPL TVFPGNKTHN AVCVPGSPPA EPLGNLTVVL LAVAACVLL 180
70     TSAQLGLHIV QLRSCMWPR ETQLLLEVPV STEDARSCQF PBEERGERSA EEKGRLGLDW 240
V
241

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Seq ID NO: C337 Protein Sequence
Protein Accession #: BAC03767.1

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75     1      11      21      31      41      51
|      |      |      |      |      |
MGCDGRVSGI LRRNLQPTLT YWSVFFSFGI CIAFLGPTLL DLRCQTHSSL PQISWVFFSQ 60
QLCLLLGSAL GGVFKRTLAQ SLWALFTSSL AISLVFAVIP FCRDVKVLAS VMALAGLAMG 120
CIDTVANMQL VRMYQKDSAV FLQVLHFFVG FGALLSPLIA DPFLSEANCL PANSTANTTS 180
80     RGHLEHVSRI LGQHVDVDAK WSNQTFPGLT PKDGACTRVS YAFWIMALID LPVPMVAVLM 240
LSKERLLTCC PQRRPLLLSA DELALETQPP EKEDASSLEP KFQSHLGHEH LPSCCQRKNL 300
RGAPYSFFAI HITGALVLFM TDGLTGAYSA FVYSYAVEKP LSVGHKVAGY LPSPFWGFIT 360
LGRLLSIPIS SRMKPATMVF INVVGVVVTF LVLLIFSINV VFLFVGIASL GLFLSSTFPS 420
MLAYTEDSLQ YKGCATTVLV TGAGVGEMVL QMLVGSIFQA QGSYSFLVCG VIFGCLAFTF 480

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YILLLPFHRM HPGLPSVPTQ DRSIGMENSE CYQR

514

Seq ID NO: C338 Protein Sequence
Protein Accession #: NP_002194.1

5
10
15
20
25

1	11	21	31	41	51	
MGPERTGAAP	LPLLLVLALS	QGILNCCLAY	NVGLPEAKIF	SGPSSEQFGY	AVQQFINPKG	60
NWLLVGSFWS	GFPENRMGDV	YKCPVDLSTA	TCEKLNQTS	TSIPNVTEMK	TNMSLGLILT	120
RNMGTGGFLT	CGLMAQQCG	NQYYTTGVCS	DISPDFQLSA	SFSPATQPCP	SLIDVVVCD	180
ESNSIYPWDA	VKNFLEKQVQ	GLDIGPTKTQ	VGLIQYANNP	RVVFNLTNYK	TKEEMIVATS	240
QTSQYGGDLT	NTFGAIQYAR	KYAYSASAGG	RRSATKVMVV	VTDGESHGDS	MLKAVIDQCN	300
HDNILRFGLA	VLGYLNRNAL	DTKNLIKEIK	AIASIPTRY	FFNVSDBAAL	LEKAGTLGEQ	360
IPSIETVQGG	GDNFQMEMSQ	VGFSAQYSSQ	NDILMLGAVG	AFGWSGTIVQ	KTSHGHLIFP	420
KQAFDQILQD	RNHSSYLGSY	VAAISTGEST	HFVAGAPRAN	YTGQIVLYSV	NENGNITVIQ	480
AHRGDQIGSY	FGSVLCSDV	DKDITDVL	VGAPMYMSDL	KKEEGRVYLF	TIKKGILGQH	540
QFLGEGEGIE	NTRFSGAIAA	LSDNMDGDFN	DVIVGSPLEN	QNSGAVIYIN	GHQGTIRTKY	600
SQKILGSDGA	FRSHLQYFGR	SLDGYGDLNG	DSITDVSIGA	FGQVVQLWSQ	SIADVAIEAS	660
FTPEKTLTVN	KNAQILKLC	FSAKFRPTKQ	NNQVAIVYNI	TLDADGFSSR	VTSRGLFKEN	720
NERCLOKQMV	VNQASCPEH	IIYIQEPSDV	VNSLDLRVDI	SLNPGTSPA	LEAYSETAKV	780
FSIPPHKDCG	EDGLCISDLV	LDVRQIPAAQ	EQPFIVSNQN	KRLTFSVTLK	NKRESAYNTG	840
IVDVFSENLF	FASFSLVDG	TEVTCQVAAS	QKSACDVGY	PALKREQQVT	FTINFDFNLQ	900
NLQNASLSF	QALSESQEN	KADNLVNLKI	PLLYDAEHL	TRSTNINPFE	ISSDGNVPSI	960
VHSEFVGVK	FIFSLKVTG	SVPVSMATVI	IHIPQYTKK	NPLMYLTGVQ	TDKAGDISCN	1020
ADINPLKIQ	TSSSVSPKSE	NFRHTKELNC	RTASCNVTC	WLKDVHMKGE	YFVNVTTRIN	1080
NGTFASSTFQ	TVQLTAAARI	NTYNPEIYVI	EDNTVTIPLM	IMKPDEKAEV	PTGVIIGSII	1140
AGILLLLALV	AILWKLGFCK	RKYERMTKNP	DRIDETTELS	S		1181

Seq ID NO: C339 Protein Sequence
Protein Accession #: NP_113648.1

30
35
40

1	11	21	31	41	51	
MYRPRARAAP	EGVRGCAVP	STVLLLLLAYL	AYLALGTGVF	WLEGRAAQD	SSRSFQDKW	60
ELLQNFCTLD	RPALDSLRD	VVQAYKNGAS	LLSNTTSMGR	WELVGSFFFS	VSTITTIGYG	120
NLSPTMAAR	LFCIFFALVG	IFLNLVVLNR	LGHLMQQGVN	HMASRLGGTW	QDDPKARWLA	180
GSGALLSGLL	LFLLPLPLP	SHMEGWSYTE	GFYFAPITLS	TVGFGDYVIG	MNPSQRYPLW	240
YNNMVSILW	FGMAWLALII	KLILSQLETP	GRVCSCHHS	SKEDFKSQSW	RQGPDPREPES	300
HSPQGGCYPE	GPWGIIQHLE	PSAHAAGCGK	DS			332

Seq ID NO: C340 Protein Sequence
Protein Accession #: NP_004145.1

45
50

1	11	21	31	41	51	
MEWDNGTQGA	LGLPPTTCVY	RENFKQLLLP	PVYSAVLAAG	LPLNICVITQ	ICTSRRALTR	60
TAVYTLNLAL	ADLLVACSLP	LLIYNIAQGD	HWPPGDFACR	LVRPLFYANL	HGSILFLTCI	120
SPQRVLGICH	PIAPWHKRG	RRAAWLVCVA	VWLAVTTQCL	PTAIPAATGI	QRNRTVCYDL	180
SPPALATSLG	LYGMAITVIG	FLLPFAALLA	CYCLACRLC	RQDGPAPVPA	QERRGKAARM	240
AVVVAAAFAI	SFLPHITKT	AYLAVRSTPG	VPCTVLEAPA	AAKGRTRPFA	SANSVLDPII	300
FYFTQKFR	RPHELLQKLT	AKWQRQGR				328

Seq ID NO: C341 Protein Sequence
Protein Accession #: NP_009128.1

55
60
65

1	11	21	31	41	51	
MQRPGFRLWL	VLQVMGSCAA	ISSMDMERPG	DGKCQPIEIP	MCKDIGYNTM	RMPNLMGHEN	60
QREAAIQLEH	FAPLVEYGC	GHLRFLLCSL	YAPMCTEQVS	TPIPACRVMC	EQARLKCSPI	120
MEQFNFKWFD	SLDCRKLPMK	NDPNYLCMEA	PNNGSDEPTR	GSGLFPPLEFR	PQRPHSAQEH	180
PLKGGPGGRG	GCDNPGKPHH	VEKSASCAPL	CTPGVDVYWS	REDKRPVAVW	LAIWAVLCFF	240
SSAFTVLTFY	IDPARFRYPE	RPIIFLSMCY	CVYSVGYLIR	LPAGAESIA	DRDSGQLYVI	300
QEGLESTGCT	LVLFLVLYFG	MASSLWVVL	TLTWFLAAGK	KWGHEAIEAN	SSYPHLAANA	360
IPAVKTILIL	VMRRVAGDEL	TGVCYVGSMD	VNALTGFVLI	PLACYLVIGT	SFILSGFVAL	420
FHRRVMKMG	GENTDKLEKL	MVRIGLFSVL	YTVPATCVIA	CYFYERLND	YNKILAAQHK	480
KCMNNQTKTL	DCLMAASIPA	VEIFPMVKIFM	LLVVGITSGM	WIWTSKTLQS	WQVCSSRLK	540
KKSRRKPAVS	ITSGGIYKKA	OBPKQTHHGK	YEIPAQSPTC	V		581

Seq ID NO: C342 Protein Sequence
Protein Accession #: NP_005752.1

70
75
80

1	11	21	31	41	51	
MEVSRRKAPP	RPPRPAAPLP	LLAYLLALAA	PGRGADEPVW	RSEQAIGAIA	ASQEDGVFVA	60
SGSCLDQLDY	SLEHSLRLY	RDQAGNCTEP	VSLAPPARPR	PGSSFSKLLL	PYREGAAGLG	120
GLLLTGWTFD	RGACEVRPLG	NLSRNSLRNG	TEVVSCHPQG	STAGVVYRAG	RNNRWYLAVA	180
ATVVLPEPET	ASRCNPAASD	HDIAIALKDT	EGRSLATQEL	GRLLKCEGAG	SLHFVDAPLW	240
NGSIYFPYYP	YNTSGAATG	WPSMARIAQS	TEVLFQGGAS	LDCGHGHPDG	RRLLSSSLV	300
EALDVAGVFP	SAAAGEQEER	RSPTTALCL	FRMSEIQARA	KRVSWDFKTA	ESHCKEGDQP	360
ERVQPIASST	LIHSDLTSVY	GTVMNRTVL	FLGTGQGQLL	KVILGENLTS	NCEPVIYEIK	420
EETPVFYKLV	PDPVKNIYIY	LTAGKEVRR	RVANCNHKS	CSECLTATDP	HCGWCHSLQR	480
CTFGQDCVHS	ENLENWLDIS	SGAKKCPKIQ	IIRSSKEKTT	VIMVGSFSPR	HSKCMVKNV	540
SSRELQCNKS	QPNRTCTCSI	PTRATYKIDS	VVNMVFSFGS	WNLSDRFNFT	NCSLKECPA	600
CVETGCAWCK	GARRCIHPPT	ACDPSDYERN	QEQCPVAVEK	TSGGGRPKEN	KGNRTNQALQ	660
VFYKISIEPQ	KVSTLGRSNV	IVTGANPTRA	SNITMILKGT	STCDKDVIVQ	SHVLNDTHMK	720

5 FSLPSSRKEM KDVCIQFDGG NCSSVGSLSY IALPHCSLIF PATTWISGGQ NITMGRNFD 780
 VIDNLIISHE LKGNINVSEY CVATYCGFLA PSLKSSKVRT NVTVKLRVQD TYLDCGTLYQ 840
 REDPRFTGYR VESEVDTELE VKIQKENDNF NISKKDIEIT LPHGENGQLN CSFENITRNQ 900
 DLTTLCKIK GIKTASTIAN SSKKVRVKG NLELYVEQES VPSTWYFLIV LPVLLVIVIF 960
 AAVGVTTHKS KELSRRQSQQ LELLESELK EIRDGFALQ MDKLDVDSF GTVPFLDYKH 1020
 FALRTFFPES GGFTHIFTED MNRDANDKN ESLTALDALI CNKSFLVTVI HTLEKQKNFS 1080
 VKDRCLFASF LTIALQTKLV YLTSILEVLT RDLMEQCSNM QPKMLLRTE SVVEKLLTNW 1140
 MSVCLSGFLR ETVGEPFYLL VTTLNQKINK GPVDVITCKA LYTLNEDWLL WQVPEPSTVA 1200
 LNVVPEKPE NESADVCRNI SVNVLDCDTI GQAKEKIFQA FLSKNGSPYG LQLNEIGLEL 1260
 10 QMGTRQKELL DIDSSSVILE DGITKLNTIG HYEISNGSTI KVFKKIANFT SDVEYSDDHC 1320
 HLILPDSSEAF QDVQGRHRG KHKFKVKEMY LTKLLSTKVA IHSVLEKLF R SIMSLPNSRA 1380
 PFAIKYFDF LDAQAENKKI TDPDVVHINK TNSLPLRFVW NILKNPQFVF DIKTPHIDG 1440
 CLSVIAQAFM DAFSLTEOQL GKEAPTNNLL YAKDIPTYKE EVKSYKPAIR DLPLLSSEM 1500
 15 EEFLTQESKK HENEFNEEVA LTEIYKIVK YFDEILNKLE RERGLEEAQK QLLHVKVLFD 1560
 EKKCKWM 1568

Seq ID NO: C343 Protein Sequence
 Protein Accession #: NP_002176.1

20 1 11 21 31 41 51
 | | | | |
 MTILGTTFM VFSLLQVVS ESYAQNGDL EDAELDDYSF SCYSQLEVNG SQHSLTCAFE 60
 DPDVNTNLE FEICGALVEV KCLNFRKLQE IYFIETKKFL LIGKSNICVK VGEKSLTCKK 120
 25 IDLTTIVKEE APFDLSVIYR EGANDEFVTF NTSLQKKYV KVLMDVAYR QEKDENKWTW 180
 VNLSSTKLTL LQRKLQPAAM YEIKVRSIPD HYFKGFWESEW SPSYFRTPE INSSGEMDP 240
 ILLTISILSF FSVALLVILA CVLWKKRIKP IVWPSLPDHK KTLHLCKKP RKNLNVSEFP 300
 ESPLDQIHR VDDIQARDEV EGFLQDTFPQ QLEESERQL GGDVQSPNCP SEDVVVPES 360
 FGRDSSLTCL AGVNSCADAP ILSSSRSLDC RESGKNGPHV YQDLLLSLGT TNSTLPPFPF 420
 30 LQSGILTLPN VAQQPILTS LGSNQEAAYV TMSSFYQNG 459

Seq ID NO: C344 Protein Sequence
 Protein Accession #: NP_002713.1

35 1 11 21 31 41 51
 | | | | |
 MAAARLCLSL LLLSTCVALL LQPLLAGAQA PLEPVYPGDN ATPEQMAQYA ADLRRYINML 60
 TRPRYGRHK EDTLAFSEWG SPAAVPREL SPLDL 95

40 Seq ID NO: C345 Protein Sequence
 Protein Accession #: NP_115934.1

45 1 11 21 31 41 51
 | | | | |
 MTRRHVRL FTVSLALQII NLGNSYQREK HNGGREEVTK VATQKHQSP INWTSSHFE 60
 VTGSAEGWGP EEPLPYSRAF GEGASARPRC CRNGGTCVLG SPCVCPAFT GRyceHDQR 120
 SECGALEHGA WTLRACHLCR CIFGALHCLP LQTPDRCDPK DFLASHANGP SAGGAPSLLL 180
 LLPCALLHRL LRPDAPAPHR SLVPSVLQRE RRPGRPLGL HRL 223

50 Seq ID NO: C346 Protein Sequence
 Protein Accession #: NP_006524.1

55 1 11 21 31 41 51
 | | | | |
 MARSLVCLGV IILLSAFSGP GVRGGPMPKL ADRKLCADQE CSHPISMAYA LDYMAPDCR 60
 FLTIHRGQV YVFSKLGRG RLFWGGSVQG DYWGDLAARL GYFPSSIVRE DQTLKPGKVD 120
 VKTDKMDPYC Q 131

60 Seq ID NO: C347 Protein Sequence
 Protein Accession #: Eos sequence

65 1 11 21 31 41 51
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 MTQVTEKSTE HPEKTTSTTE KTRTPEKPT LYSEKTICTK GKNTFVPEKP TENLGNTTLT 60
 TETIKAPVKS TENPEKTA AV TKTIKPSVKV TGDKSLTTS SHLNKTEVTH QVPTGSFTLI 120
 TSRTKLSIT SEATGNESH YLNKDGSKG IHAGQMGEND SPPAWAIVIV VLVAVILLV 180
 FLGLIFLVSY MMRTRTLTQ NTQYNDAADE GGPNSYFVYL MEQQNLGMGQ IPSR 235

70 Seq ID NO: C348 Protein Sequence
 Protein Accession #: NP_543146.1

75 1 11 21 31 41 51
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 MTQVTEKSTE HPEKTTSTTE KTRTPEKPT LYSEKTICTK GKNTFVPEKP TENLGNTTLT 60
 TETIKAPVKS TENPEKTA AV TKTIKPSVKV TGDKSLTTS SHLNKTEVTH QVPTGSFTLI 120
 TSRTKLSIT SEATGNESH YLNKDGSKG IHAGQMGEND SPPAWAIVIV VLVAVILLV 180
 FLGLIFLVSY MMRTRTLTQ NTQYNDAADE GGPNSYFVYL MEQQNLGMGQ IPSR 235

80 Seq ID NO: C349 Protein Sequence
 Protein Accession #: FGENESH predicted

1 11 21 31 41 51
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	MMPRLAFCCW	GLALVSGWAT	FQOMSPSRNF	SFRLFPETAP	GAPGSIPAPP	APQDEAAGSR	60
	VERLGQAFRR	RVRLLRELSE	RLELVPLVDD	SSSVGEVNF	SELMFVRKLL	SDFPVVPTAT	120
	RVAIVTFSSK	NYVVPVVDYI	STRRARQHKC	ALLLQEIPI	SYRGGTYTK	GAPQQAQIL	180
5	LHARENSTKV	VFLITDGYSN	GGDPRPIAAS	LRDSGVEIFT	FGIWQGNIRE	LNDMASTPKE	240
	EHCYLLHSFE	EFEALARRAL	HEDLPSGSFI	QDDMVHCXYL	CDEGKCCOR	MGSCKCGTHT	300
	GHFECICEKG	YYGKGLQYEC	TACPSGTYKP	EGSPGGISSC	IPCPDENHTS	PPGSTSPEDC	360
	VCRGEGYRAG	QTCBELVHCPA	LKPPENGYFI	QNTCNNHFNA	ACGVRCHPGF	DLVGSSTILC	420
	LFNGLWSGSE	SYCRVRTCPH	LRQPKHGHIS	CSTREMLYKT	TCLVACDEGY	RLEGSDKLTG	480
	QGNQMDGPE	PRCVERHCST	FQMPKDVII	PHNCGKQPAK	FGTICVYSCR	QGFIILSGVKE	540
10	MLRCTTSGKW	NVGQAAVCK	DVEAPOINCP	KDIEAKTLEQ	QDSANVTWQI	PTAKDNSGEK	600
	VSVHVHPAFT	PPYLFPIGDV	AIVYTATDLS	GNQASCFIHI	KVIDAEPPVI	DWCRSPPPVQ	660
	VSEKVHAASW	DEPQFSDNSG	AELVITRSHT	QGDLPFQGET	IVQYTATDPS	GNNRTCDIHI	720
	VIKGSPECEP	FTPVNGDFIC	TPDNTGVNCT	LTCLEGYDFT	EGSTDKYICA	YEDGVWKPTY	780
	TTEWPDCAKK	RFAHNGHKFS	EMFYKAARCD	DTDLMKKFSE	AFETTLGKMV	PSFCSDAEDI	840
15	DCRLEENLTK	KYCLEYNYDY	ENGFAIGPGG	WGAANRLDYS	YDDFLDTQOE	TATSIGNAKS	900
	SRIKRSAPLS	DYKIKLIFNI	TASVPLPDER	NDTLEWENQ	RLLTLETIT	NKLKRTLNKD	960
	PMYSFQLASE	ILIAADSNLE	TKKASFFCRP	GSVLRGRMCV	NCPGLTYYNL	EHFTCESCRI	1020
	GSYQDBEGSL	ECKLCPSGMY	TEYIHSRNIS	DCKAQCKQGT	YSYSGLETCE	SCPLGTYQPK	1080
20	FGSRSCLSCP	ENTSTVTKRG	VNISACGVPC	PEGKFSRSLG	MPCHPCPRDY	YQPNAGKAPC	1140
	LACPFYGTTP	FAGRSITEC	STSVLNITIF	GGFGHLELLN	CPSEVFHECF	FNPCHNSGTC	1200
	QQLGRGYVCL	CPLGTYGLKC	ETDIDECSP	PCLNNGVCKD	LVGEFICECP	SGYTGQRCEE	1260
	NINECSSSPC	LNKIGICVDG	AGYRCTCVKG	FVGLHCETEV	NEQCSNFCIN	NAVCEQDVGG	1320
	FLCKCPGQFL	PTPCGKNVDE	CLSQPCKNGA	TCKDGANSFR	CLCAAGFTGS	HCELNINECQ	1380
	SNPCRNQATC	VELENSYSCK	CQPFSGKRC	ETBQSTGFNL	DVEVSGIYGY	VMLDGMPLPSL	1440
25	HALTCTPMK	SSDDMNYGTP	ISYAVDNGSD	NTLLLTIDYNG	WVLYVNGREK	ITNCPVNDG	1500
	RWHIAITWT	SANGIKVYI	DGKLSDDGAG	LSVGLPIPGG	GALVGLQEQD	KKGEFGSPAE	1560
	SFVGSISQLN	LWDYVLSPOQ	VKSLATSCPE	ELSKGNVLAW	PDPLSGIVGK	VKIDSKSIFC	1620
	SDCPRLGSGF	PHLRTASELD	KPGSKVNLFC	DPGFQLVGNP	VQYCLNQGQW	TQPLPHCERI	1680
	SCGVPPPLEN	GFHSADDFYA	GSTVITYCNN	GYVLLGDSRM	FCTDNGSWNG	VSPCLDVDE	1740
30	CAVGSDCSEH	ASCLNVDGSY	ICSCVPPYTG	DGKNCAEPIK	CKAPGNPENG	HSSGEITYTG	1800
	AGVTFSCQEG	YQLMGVTKIT	CLESGEWNHL	IPYCKAVSCG	KPAIPENGCI	EELAFTFGSK	1860
	VTYRCNKGYT	LAGDKESSCL	ANSSWSHSP	VCEPVKCSSP	ENINNGKYL	SGLTYLSTAS	1920
	YSCDTGYSIQ	GPSIIECTAS	GIWDRAPPAC	HLVFCGEPPA	IKDAVITGNN	FTFRNTVITY	1980
	CKEGYTLAEL	DTIECLADGK	WSRSDQCLLA	VSCDEPPIVD	HASPETAHRL	FGDIAFYICS	2040
35	DGYSLADNSQ	LLCNAQKQWV	PPBQDQMPRC	IAHFCCKPPS	VSYSILESVS	KAKFAAGSVV	2100
	SFKCMBEGVL	NTSAKIECMR	GGQWNPSPMS	IQCIPIVRCGE	PPSIMNGYAS	GSNYSFGAMV	2160
	AYSCKNGFYI	KGEKSTCEA	TGQWSSPIPT	CHPVSCGEP	KVENGFLHT	TGRIFESEVR	2220
	YQCNPGYKSV	GSPVFCQAN	RHWHSSEPLM	CVPLDCGKPP	PIQNGFMKGE	NFEVSGKVQF	2280
	FCNEGYELVG	DSWTCQKSG	KWNKSNPKC	MPAKCEPPL	LENQVLKEL	TTEVGVVTF	2340
40	CKBHVQLGP	SVLKCLPSQQ	WNDSFPVCKI	VLCTPPPLIS	PGVPISSAL	HFGSTVKYSC	2400
	VGEFFLRGNS	TTLQCPDGTW	SSPLPECVVP	ECQPPEIPI	GIIDVQGLAY	LSTALYTCRP	2460
	GFELVGNITT	LCGEGHWLWG	GKPTCKAIAC	LKPKEILNGK	FSYTDLHYGQ	TVTYSQNRQP	2520
	RLEGPALATC	LETGWDVDA	PSCNAIHCD	POPIENGFEV	GADYSYGAIL	IYSCFPGFQV	2580
	AGHAMQTCEE	SGWSSSIPTC	MPIDCGLPH	IDFGDCTKLK	DDQGYFEQED	DMMEVPVYTP	2640
45	HPYHLGAVA	KTWENTKESP	ATHSSNPLYG	TMVSYTCNPG	YELGPNVPLI	CQEDGTWNGS	2700
	APSCISIECD	LPTAPENGFL	RPTETSMGSA	VQYSCPKGHI	LAGSDLRLCL	ENRKWSGASP	2760
	RCEAISCKKP	NPMVNGSIKG	SNYTYLSTLY	YECDFGYVLN	GTERRTQDD	KNWDEDEPIC	2820
	IPVDCSSPPV	SANGQVRGDE	YTFQKEIET	CNEGFLLEGA	RERVCLANGS	WSGATPDCVP	2880
	VRCATPPQLA	NGVTEGLDYG	FMKEVTFHCH	EGYILHGAPK	LTCQSDGNWD	AEIPLCKPVN	2940
50	CGPPEDLAHG	FPNGFSPIHG	GHIYQCFPG	YKLHGNSSRR	CLNNGSWSGS	SPSCLPCRC	3000
	TPVIEYGTVN	GTFDFCGKAA	RIQCFKGFPL	LGLSEITCEA	DQWSSGFFPH	CEHTSCGSLP	3060
	MIPNAFISBT	SSWKENVITY	SCRSGYVIQ	SSDLICTEKG	VMSQYFVCE	PLSCGSPPSV	3120
	ANAVATGEAH	TYBSEVKLR	LEGYTMOTDT	DTFTQCKDGR	WPPERISCS	KKCPLENIT	3180
	HILVHGDDFS	VNRQSVSCA	EGYTFEGVNI	SVCQLDGTWE	PPFSDSCSP	VSCGKPSPE	3240
55	HGFVVGSKYT	FESTIYQCE	PGYELEGNRE	RVCQENRQNS	GGVAICKETR	CETPLEFLNG	3300
	KADIENTTIG	PNVAVYSCNR	YSLEGPSEAH	CTENGWNSHP	VPLCKPNPCP	VPFVIPENAL	3360
	LSEKEFYVDQ	NVSIKCREGF	LLQGHGIITC	NPEDETWTQS	AKCEKISCGP	PAHVENAIAR	3420
	GVHYQYQMD	TYSCYSGYML	EGFLRSVCLE	NGTWTSPPIC	RAVCRFPQCN	GGICQRPNAC	3480
60	SCPEGNMGR	CEEPICILPC	LNGGRCVAPY	QCDCPPGWTG	SRCHTAVQCS	PCLNGGKCVR	3540
	PNRCHCLSSW	TGHNCSSR					3557

Seq ID NO: C350 Protein Sequence

Protein Accession #: FGENESH predicted

65	1	11	21	31	41	51	
	MRFSVSGMRT	DYPRSVLAPA	YVSVCLLLLC	PREVIAPAGS	EPWLQCPAPR	CGDKIYNPLE	60
	QCCYNDAIVS	LSETRQCGPP	CTFWPCFELC	CLDSFGLTND	FVVKLVQGV	NSQCHSSPIS	120
70							129
	SKCERGRIC						

Seq ID NO: C351 Protein Sequence

Protein Accession #: AAH35671.1

75	1	11	21	31	41	51	
	MVPGARGGGA	LARAAGRGLL	ALLLAVSAPL	RLQAEELGDD	CGHLVITYQDS	GTMTSKNYPG	60
	TYPNHTVCEK	TITVPKGRKL	ILRLGLDLIE	SQTCASDYLL	FTSSSDQYGP	YCGSMTPVKE	120
	LLLNSTSEVTV	RFESGSHISG	RGFLITYASS	DHPDLITCLE	RASHYLTKEY	SKFCPAGCRD	180
	VAGDISGNMV	DGYRDTSLLC	KAIAHAGIIA	DELGGQISVL	QRKIGISRYEG	ILANGVLSRD	240
80	GSLSDKRFLP	TSNGCSRLS	FEPDQIRAS	SSWSQSVNESG	DQVHWSPPQA	RLQDQGPSWA	300
	SGDSNNHKPL	REWLEIDLGE	KKKITGIRTT	GSTQSNFNFY	VKSFVMNFKN	NNSKWKTYKG	360
	IVNNEEKVFL	GNSNFRDPVQ	NNFIPPIVAR	YVRVVFQTH	QRALKVELI	CGQITQGNDS	420
	LWRRKTSQST	SVSTKQDEET	ITRPIPSEET	STGINITTVA	IPLVLLVLV	PAGMGIFAFA	480
	RKKKKKGSFY	GSAAEQKTD	WKQIKYPPAR	HQSAEFTISY	DNEKEMTQKL	DLITSDMAG	539

Seq ID NO: C352 Protein Sequence
Protein Accession #: Eos sequence

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1	11	21	31	41	51	
MGFGAGQRLR	PVPAPRSSAE	EAARPGQLRL	GIRRGAEALA	KLAPSGVMVP	GARGGGALAR	60
AAGRGLLALL	LAVSAPLRLQ	AEELGDGCGH	LVTYQDSGTM	TSKNYPGTYP	NHTVCEKTIT	120
VPKGRLLIIR	LGDLDIESTQ	CASDYLLFTS	SSDQYGPYCG	SMTVPKELLL	NTSEVTVRFE	180
SGSHISGRGF	LLTYASSDHP	DLITCLERAS	HYLKTEYSKF	CPAGCRDVAG	DISGNMVDGY	240
RDTSLICKAA	IHAGIIADEL	GGQISVLQRK	GISRYEGILA	NGVLSRDGSL	SDKRFLFTSN	300
GCSRSLSFEP	DQQIRASSSW	QSVNESGDQV	HNSPGQARLQ	DQGPSWASGD	SSNNHKPREW	360
LEIDLGEKKK	ITGIRTTGST	QSNFNFYVKS	FVMNFKNNNS	KWKTYKGIVN	NBEKVFPQNS	420
NFRDPVQNNF	IPPIVARYVR	VVPQTWHQRI	ALKVELIGCQ	ITQGNDSLIV	RKTSQSTSVS	480
TKKEDETITR	PIPSEETSTG	INITTVAIPL	VLLVVLVFAV	MGIFAAPRRK	KKKGSPYGSA	540
EAQKTDCKNQ	IKYPFARHQS	AEPTISYDNE	KEMTQKLDLI	TSDMAG		586

Seq ID NO: C353 Protein Sequence
Protein Accession #: FGENESH predicted

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1	11	21	31	41	51	
MFQRQERFLD	LSSAEAVAAW	ILHQHPDIIN	KGDGCGHLVT	YQDSGTMSTK	NYPGTYPNHT	60
VCEKTIITVPK	GKRLILRLGD	LDIESQTCAS	DYLLPTSSSD	QYGMQKEEET	EVLCLSVAGA	120
QRVDIPVQLR	PSFLEGWKGH	ADARGPYCGS	MTVPKELLIN	TSEVTVRFES	GSHISGRGFL	180
LTAYSSDHPD	LITCLERASH	YLKTEYSKFC	PAGCRDVAGD	ISGNMVDGYR	DTSLCKAAI	240
HAGIIADELG	QQISVLQRKQ	ISRYEGILAN	GVLSDGSL	DKRFLFTSNG	CSRSLSFEPD	300
QQIRASSSWQ	SVNESGDQVH	WSPGQARLQD	QGPSWASGDS	SSNNHKPREWL	EIDLGEKKKI	360
TGIRTTGSTQ	SNFNFYVKSF	VNMFKNNNSK	WKTYKGIVNN	EEKVFPQNSN	FRDPVQNNFI	420
PIIVARYVRV	VPQTWHQRIA	LKVELIGCQI	TQGNDSLIVNR	KTSQSTSVST	KKEDETITRP	480
IPSEETSTDA	MPVQIVQDHT	QMISQRENLG	PDEGKIPFKG	TAESMVRVVE	AVVVNDLGLM	540
FLAHTPEEDI	DHYCNKQIKY	PFARHQSAEF	TISYDNEKEM	TQKLDLITSD	MADYQQPLMI	600
GTGTVTRKGS	TFRPMDTDAE	EAGVSTDAGG	HYDCPQRAGR	HEYALPLAPP	EPEYATPIVE	660
RHVLRAHTFS	AQSGYRVPGP	QPGHKHLSLS	GGFSPVAVGV	AQGDGYQRPH	SAQPADRGYD	720
RPAVVSALAT	ESGHPDSQKP	PTHPGTSDSY	SAPRDLCTPL	NQTAMTALL		769

Seq ID NO: C354 Protein Sequence
Protein Accession #: NP_004607.1

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1	11	21	31	41	51	
MAGVSACIKY	SMFTFNPLFW	LCGILILALA	IWVRVSNDQ	AIFGSEDVGS	SSYVAVDILI	60
AVGAIIMILG	FLGCCGAIKE	SRGMILLFFI	GLLLILLLQV	ATGILGAVFK	SKSDRIVNET	120
LYENTKLLSA	TGESKQFQE	AIIVFQEEFK	CCGLVNGAAD	WGNMFQHYPE	LCACLDKQRP	180
CQSYNGKQVY	KETCISFIKD	FLAKNLIIVI	GISFGLAVIE	ILGLVFSMVL	YCQIGNK	237

Seq ID NO: C355 Protein Sequence
Protein Accession #: NP_004608.1

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1	11	21	31	41	51	
MCTGGCARCL	GGTLIPLAPP	GFLANILLFF	PGGKVIDDND	HLSQBINFPG	GILGSGVLMI	60
FPALVFLGLK	NNDCGCCCGN	EGCGKRFAMP	TSTIFAVVGF	LGAGYSFIIIS	AISINKGPKC	120
LMANSTWQYP	FHDGDLNDE	ALWNKCREPL	NVVPWNLTLE	SILLVVGGIQ	MVLCAIQVNV	180
GLLGLTLCGDC	QCCGCCGGDG	PV				202

Seq ID NO: C356 Protein Sequence
Protein Accession #: NP_002372.1

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1	11	21	31	41	51	
MPPAPAPARRL	PGLLLLLLWPL	LLLPSAAPDP	VARPGFRRLR	TRPGGSGPGR	RPSPAAPDGA	60
PASGTSEPR	ARGAGVCKSR	PLDLVFIIDS	SRSVRPLEFT	KVKTFVSRRI	DTLDIGPADT	120
RVAVVNYAST	VKIEFQLQAY	TDKQSLQAV	GRITPLSTGT	MSGLAIQTAM	DEAFTVEAGA	180
REPSSNIPKV	AIIVTDGRPQ	DQVNEVAARA	QASGIELYAV	GVDRADMASL	KMMASEPLEE	240
HVFYVETYG	IEKLSSRFQE	TFCALDPCVL	GTHQCQHVCI	SDGEGKHCE	CSQGYTLNAD	300
KKTCALDRC	ALNTHGCEHI	CVNDRSGSYH	CECYEGYTIN	EDRKTCQAQD	KCALGTHGCO	360
HICVNDRTGS	HHCECYEGYT	LNADKKTCSV	RDKCALGSHG	CQHICVSDGA	ASYHCDCTYPG	420
YTLNEDKRTC	SATEEARRLV	STEDACGCEA	TLAFQDKVSS	YLQRLNTRLD	DILEKIKINE	480
YQIHR						486

Seq ID NO: C357 Protein Sequence
Protein Accession #: NP_057723.1

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1	11	21	31	41	51	
MARGSLRRLL	RLVLGLWLIA	LLRSVAGEQA	PGTAPCSRGS	SWSADLDKCM	DCASCRRAPH	60
SDFCLGCAAA	PPAPFRLLWP	ILGGALSLTF	VLGLLSGFLV	WRCRRRREKF	TTPIEBTGGE	120
GCPAVALIQ						129

Seq ID NO: C358 Protein Sequence
Protein Accession #: NP_001810.1

1 11 21 31 41 51
 1 MQPTLLLSLL GAVGLAAVNS MPVDNRNHNH GMVTRCIEEV LSNALSKSSA PPITPECRQV 60
 5 LKTSRDKVD KETTENENTK FEVRLLRDPA DASEAHSSSS RGEAGAPGEE DIQGPTKADT 120
 EKWAEGGGHS RERADEPQWS LYPSDSQVSE EVKTRHSEKS QREDEEEEG ENYQKGERGE 180
 DSSEKHLDEE PGETQNAFLN ERKQASAIKK EELVARSETH AAGHSQEKTH SREKSSQESG 240
 EEAGSQENHP QESKGPQPSQ ESEEGEEDA TSEVDKRRTR PRHHHGRSRP DRSSQGGSLP 300
 SEEKGHPOEE SEESNVSMAS LGEKRDHHT HYRASEEPE YGEEIKGYPG VQAPEDLEWE 360
 10 RYRGRGSEFY RAPRPQSEES NDEEDKRNYP SLELDKMAHG YGEESEEEERG LEPGKGRHHR 420
 GRGGEPRAYF MSDTREEKRF LGEHGHVRVQE NQMDKARRHP QGAWKELDRN YLNYGEEGAP 480
 GKWQQQDLG DTENREEAR FQDKQYSSHH TAEKRRLAGE LFNPHYDPLQ WKSSHFERRD 540
 NMNDNPLEGE EENELTLNEK NFFPEYNYDW WEKKPFSEDV NWGYEKNLA RVPKLDLKRQ 600
 YDRVAQLDQL LHYRKKSAEF PDFYDSSEPV STHQEAENEK DRADQTVLTE DEKKELLENLA 660
 15 AMDLELQKIA EKFSQRG 677

Seq ID NO: C359 Protein Sequence
 Protein Accession #: XP_093082.1

1 11 21 31 41 51
 20 1 MKLLCEGLKQ PNCVLQTLRW YRCLISSASC GALAAVLSTS QMLTELEFSE TKLEASALKL 60
 LYGLKDPNC KLQKLNQFS LSVTAALKFV GMVNCSCGFS GSLVQSHFGY QDSSFKCDL 120
 CKLLWPSRV AAKDCGSPK SFLSEGLNWA GRLEAVEEVL GLGLVLPQPD PASQGGGHCE 180
 25 NYGSRDLVD LEVKAEPRLR KGMMDLQRT LQVLLCKIF SLKLFALFAL PNSFGQVSVV 240
 QVTIPDFVN VTVGSNVTI CIYTTTASR EQLSIQWFF HKKEMEPISS PWEEGKWDV 300
 EAVKGTLDG QAEQLIYFSQ GQQAVALGQF KDRITGSNDP GNASITISHM QPADSGIYIC 360
 DVNNPDLFG QAGILNVFS LVKPSKPLCS VQGRPETGHT ISLSCLSALG TSPFVYWHK 420
 LGRDIPVVK ENFNPTTGIL VIGNLTNFEQ GYVQCTAIRN LGNSSCEIDL TSSHPEVGII 480
 30 VVALIGSLVG AAIISVVCV ARNKAKAKAK ERNSKTIAEL EPMTKINPRG ESEAMPREDA 540
 TQLEVTLPSS IHETGPDITQ EPDYEPKPTQ EPAPAPAGS EPMAPVDLDI ELELEPETQS 600
 ELEPEPEPEP ESEPGVVVEP LSEDEKGVVK A 631

Seq ID NO: C360 Protein Sequence
 Protein Accession #: FGENESH predicted

1 11 21 31 41 51
 35 1 MVPAFWKVL ILSCLAGQVS VVQVTIPDGF VNVTVGSNVT LICITYTTVA SREQLSIQWS 60
 PPHKKEMEPI SSPWEEGRWP DVEAVKGTLD GQQAELQIYF SQGQQAVALG QFKDRITGSN 120
 40 DPGNASITIS HQPADSGIY ICDVNNPDPF LGQNGILNV SVLVKPSKPL CSVQGRPETG 180
 HTISLCLSA LGTSPFVYV HKLEGRDIPV VKENFNPTTG ILVIGNLTNF EQGYQCTAI 240
 NRLGNSSCEI DLTSSHPEVG IIVGALIGSL VGAIIISVV CFPARNKAKAK AKERNKTIA 300
 KLEPMTKINP RGESEAMPRE DATQLEVTLP SSIHETGPDITQ EPDYEPKPTQ EPAPAPAGS 360
 45 GSEPMAPVDL DIELELEPET QSELEPEPEP EPSEPGVVV EPLSEDEKGV VKA 413

Seq ID NO: C361 Protein Sequence
 Protein Accession #: NP_003011.1

1 11 21 31 41 51
 50 1 MVSVMVSTML SGLLFWLASG WTPAFAYSPP TPDRVSEADI QRLHGVMEQ LGIARPRVEY 60
 PAHQAMNLVG PQSIEGGAHE GLQHLGPFNG IPNIVAELTG DNIPKDFSED QGYPDPPNPC 120
 FVGKTDGCL QETFDTAESF REFQLHQHLE DPEVDYPLGL KWKKKLLYEK MKGGERRKRR 180
 55 SVNPHYQQQR LDNVVAKKSV PHFSDKDP E 211

Seq ID NO: C362 Protein Sequence
 Protein Accession #: NP_076926.2

1 11 21 31 41 51
 60 1 MTTMQGMEQA MPGAGPGVPQ LGNMAVISH LWKGLQEKFL KGEPKVLGVV QILTALMSLS 60
 MGITMCMAS NTYGSNPIVS YIGYTINGSV MFIISGSLSI AAGIRTTKGL VRGSLGMNIT 120
 SSVLAASGIL INTFSLAFYS FHHPHYCNYG NSNNCHGTMS ILMGLDGMVL LLSVLEFCIA 180
 65 VSLSAFGCKV LCCTPGGVVL ILPSHSHMAE TASPTPLNEV 220

Seq ID NO: C363 Protein Sequence
 Protein Accession #: NP_002082.1

1 11 21 31 41 51
 70 1 MRGSELPLVL LALVLCAPR GRAVPLPAGG GTVLTMYPR GNHWAVGHLM GKSTGESSS 60
 VSERGSLKQQ LREYIRWEEA ARNLLGLIEA KENRNHQPPQ PKALGNQQPS WDSSEDSNFK 120
 DVGSKGKVR LSAPGSQREG RNPQLNQQ 148

Seq ID NO: C364 Protein Sequence
 Protein Accession #: NP_036393.1

1 11 21 31 41 51
 80 1 MDLQGRGVPS IDRLRVLLML FHTMAQIMAE QEVENLSGLS TNPEKDIFVV RENGTTCLMA 60
 EFAAKFIVPY DVWASNYVDL ITEQADIALT RGAEVKGRCG HSQSELQVFW VDRAYALKML 120
 FVKESHMSK GPEATWRLSK VQFVYDSSEK THFKDAVSAG KHTANSHLS ALVTPAGKSY 180
 ECQAQQTISL ASSDPQKTIV MILSAVHIQF FDIISDFVFS EEHKCPVDER EQLEETLPLI 240
 LGLILGLVIM VTLAIYHVHH KMTANQVQIP RDRSQYKHM 280

Seq ID NO: C365 Protein Sequence
Protein Accession #: NP_003217.1

5 1 11 21 31 41 51
| | | | | |
MLGLVLALLS SSSAEEYVGL SANQCAVPAK DRVDCGYPHV TPKECNRGCG CFDSRIPGVP 60
WCFKPLTRKT ECTF 74

10 Seq ID NO: C366 Protein Sequence
Protein Accession #: NP_002984.1

15 1 11 21 31 41 51
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MSLPSSRAAR VPGPSGSLCA LIALLLLLTP PGPLASAGPV SAVLTELRCT CLRVTLRVNP 60
KTIGKQVFP AGPQCKSEV VASLKNKGQV CLDPEAPFLK KVIQKILDSG NKKK 114

20 Seq ID NO: C367 Protein Sequence
Protein Accession #: NP_005233.2

25 1 11 21 31 41 51
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MRSPSAWLL GAAILLAAAL SCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVETVFS 60
VDEFSASVLT GKLTTFVPLPI VYTIIVFVGL PSNGMALWVF LFRTKKGGHPA VIYMANLALA 120
DLLSVIWFPL KIAYHIHANW WIYGEALQWV LIGFFYGNMY CSILFMTCLS VQRYWVIVNP 180
MGHSRKKANI AIGISLAIWL LILLVTIPLY VVKQTIFIPA LNIITCHDVL PEQLLVGDMF 240
NYFLSLAIGV FLFPAPLTAS AYVLMIRMLR SSAMDENSEK KRKRAIKLIV TVLAMYLICP 300
TFSNLLLVH YFLIKSQGQS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL 360
CRSVRTVKQM QVSLTSKSHS RKSSSYSSSS TTVKTSY 397

30 Seq ID NO: C368 Protein Sequence
Protein Accession #: NP_003460.1

35 1 11 21 31 41 51
| | | | | |
MAEAKTHWLG AALSLIPLIF LISGAEAASF QRNQLLQKEP DLRLENVQKF PSEPIRALE 60
YIENLRQAH KEESPDPYNP YQGVSVPLQQ KENGDESHLP ERDSLSEEDW MRIILEALRQ 120
AENEPQSAK ENKPYALNSE KNFPMDSDD YETQWPERK LKHMQFPMPY EENSNDNPFK 180
RTNEIVBEQY TPQSLATLES VQELGKLTG PNNQKRERMD EEQKLYTDE DDIYKANNIA 240
YEDVVGGEW NPVEEKIESQ TQEEVDSKE NIGKNEQIND EMKRSQQLGI QEBDLRKESK 300
DQLSDDVSKV IAYLRLVNA AGSGRLQNGQ NGERATRLFE KPLDSQSIYQ LIEISRLQI 360
PPEDLIEMLK TGEKENGSGVE PERELDLVD LDDISEADLD HPDLFQNRML SKSGYPKTPG 420
RAGTEALPDG LSVEDILNLL GMSAANQKT SYFFNPNQOE KVLRLPYGA GRSRSNQLPK 480
AAWIPHVENR QMAYENLNDK DQELGEYLAR MLVKYPEIIN SNQVRRVPGQ GSSEDLDQEE 540
EQIEQAIKEH LNQGSSSQETD KLAPVSKRPP VGPPKNDTTP NRQYWEDELL MKVLEYLNQE 600
KAEKGRHIA KRAMENM 617

50 Seq ID NO: C369 Protein Sequence
Protein Accession #: NP_112217.1

55 1 11 21 31 41 51
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MPCAQRSLA NLSVVAQLLN FGALCYGRQP QPGFVRFPDR ROEHFIKGLP EYHVVGFRV 60
DASGHFLSYG LHYPITSSRR KRDLGSEEDW VYVIRISHEEK DLFFNLTVNQ GFLSNSYIME 120
KRYGNLSHVK MMASAPLCH LSGTVLQQT RVGTAALSAC HGLTGFFQLP HGDPFIEFVK 180
KHPLVEGGYH PHIVYRRQKV PETKEPTCGL KDSVNISQKQ ELWREKWERH NLPSSRLSRR 240
SISKERWVET LVVADTKMIE YHGSNVSYS ILTIMNMVTG LFHNPISGNA IHIVVRLIL 300
LEEEBQGLKI VHAETLSS PCKWQKSINP KSDLNPNVHHD VAVLLTRKDI CAGFNRPCT 360
LGLSHLSGMC QPHRSNINE DSGLPPLAFTI AHELGHSGFI QHDGKENDCE PVGRHPYIMS 420
RQLQYDPTPL TWSKCSSEYI TRFLDRGWGF CLDDIPKKKG LKSKVIAPGV IYDVHHQQL 480
QYGPNTATCQ EVENVCOTLW CSVKGFCSRK LDAAADGTQC GEKQWCMAGK CITVGGKPES 540
IPGGWGRWSP WSHCSRTCGA GVQSAERLCN NPEPKFGGKY CTGERKRYRL CNVHPCRSEA 600
PTFRMQCSE FDTVPYKNEL YHWFPIFNPA HPCBLYCRPI DGQFSEKMLD AVIDGTPCFE 660
GGNSRMVCIN GICKMVGCDY BIDSNATEDR CGVCLGDGSS CQTVRKMFQK KEGSGYVDIG 720
LIPKGARDIR VMEIEGAGNF LAIRSEDPK YYLNGGPIIQ WNGNYKLAGT VFQYDRKGD 780
EKLMTAGPTN ESWIQLLFQ VTNPQIKYEY TIQDGLDND VEQMYFWQYG HWTECSVTCG 840
TGIRRTAHK IKKGRGMVKA TPCDPETQPN GRQKKCHEKA CPPRWAGWEG BACSATCGPH 900
GEKKRTVLCI QTMVSDEQAL PPTDCQHLLK PKTLLSCNRD ILCPSDWTVG NWSECSVSCG 960
GGVIRISVTC AKNHDEPCDV TRKPNRSLC GLQCCPSRR VLKPNKGTIS NGKNPPTLKP 1020
VPPPTSRPRM LTTPTGPESM STSTPAISSP SPTTASKEGD LGGKQWQDSS TQPELSSRYL 1080
ISTGSTSQPI LTSQSLSIQ SEENVSSSDT GPTSEGLVA TITSGSLSS SRNPITWPT 1140
PFYNTLTGKP EMBIHSGSGE EREQPEDKDE SNFVIWTKIR VPGNDAPVES TEMPLAPPLT 1200
PDLRSRSMWP PFSTVMEGLL PSQRPTTSET GTPRVEGMVT EKPANTLLPL GGDHQPEPSG 1260
KTANRNHLKL PNNMNQTKSS EPVLTEDAT SLITEGFLN ASNYKQLTNG HGSAHWIVGN 1320
WSECSTTCLG GAYWKRVECT TQMSDCAAI QRPDPAKRCH LRPCAGNKGV NWSKCSRNC 1380
GGFKIREIQ VDSRDHRNLK PFHCQFLAGI PPPLSMSCNP EPCEANQVEP WSQCSRSCG 1440
GVQERGVCFP GGLCDWTKRP TSTMSCNEHL CCHWATGNWD LCSTSCGGGF QKRIVQCVPS 1500
EGNKTEDQD CLCDHKPRPP EFKCKNQAC KKSADLLCTK DKLSASFQCT LKAMKCKSV 1560
TVRABCCFSC PQTHITHTQ RRRQRLQKS KEL 1593

80 Seq ID NO: C370 Protein Sequence
Protein Accession #: NP_001053.1

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MRQSHQLPLV	GLLLFSFIPS	QLCEICEVSE	ENYIRLKLPL	NTMIQSNYNR	GTSAVNVVLS	60
LKLVGQIQIT	LMQKMIQQIK	YNVKSRLSDV	SSGELALIL	ALGVCRNAEE	NLIYDYHLTD	120
KLENKQAEI	ENMEAHNGTP	LTNYQLSLD	VLALCLFNNG	YSTAEVVNHF	TPENKNYFVG	180
SQFSVDTGAM	AVLALTCVKK	SLINGQIKAD	EGSLKNISYI	TKSLVEKILS	EKKENGLIGN	240
TFSTGEAMQA	LPVSSDYNE	NDMNCQQTIN	TVLTEISQGA	PSNPNAQAQV	LPALMGKTPL	300
DINKDSSCVS	ASGNFNISAD	EPITVTPPDS	QSYISVNYSV	RINETYFTNV	TVLNGSVPLS	360
VMEKAQKQND	TIFGFTMEER	SWGPIITCIQ	GLCANNNDRT	YWELLSGGEP	LSQAGAGSVV	420
RNGENLEVRW	SKY					433

Seq ID NO: C371 Protein Sequence
Protein Accession #: NP_004582.1

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1	11	21	31	41	51	
MCCTKSLLLA	ALMSVLLHL	CGESEASNF	DCCLGYTDRI	LHPKFIVGFT	RQLANEGCDI	60
NAIFHTKKK	LSVCANPKQT	WKYIVRLLS	KKVIONM			96

Seq ID NO: C372 Protein Sequence
Protein Accession #: NP_037403.1

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1	11	21	31	41	51	
MAGSPLLWGP	RAGGVGLLV	LLGLFRPPP	ALCARPVKEP	RGLSAASPPL	AETGAPRRFR	60
RSVPRGEAAG	AVQELARALA	HLLEAERQER	ARAEAQEAED	QQAARVLAQLL	RVWGAPRNSD	120
PALGLDDPD	APAAQLARAL	LRARLDPAAL	AAQLVPAPVP	AAALRPRPPV	YDDGPAGPDA	180
EEAGDETPDV	DELLRLYLLG	RILAGSADSE	GVAAPRRLLR	AADHDVGSSEL	PPEGVLGALL	240
RVKRLTPAP	QVPARRLLPP					260

Seq ID NO: C373 Protein Sequence
Protein Accession #: NP_002236.1

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1	11	21	31	41	51	
MLQSLAGSSC	VRLVERHRS	WCFGFLVLGY	LLYLVFQAVV	FSSVELPYED	LLRQELRKLK	60
RRFLEEHECL	SEQQLEQFLG	RVLEASNYGV	SVLSNASGNW	NWDFTSALFF	ASTVLSTTGY	120
GHTVPLSDGG	KAFCLIIYSVI	GIPFTLLFLT	AVQRTITVHV	TRRPVLYFHI	RWGFSSQVVA	180
IVHAVLLGFV	TVSCFFFIAP	AVPSVLEDDW	NFLBSPYPCF	ISLSTIGLGD	YVPGEGYNQK	240
FRELKIGIT	CYLLGLLIAM	LVLLETFCFL	HEKKKFRKMF	YVKKDKDEDQ	VHIIHQDQLS	300
FSSITDQAG	MKEDQKQNEP	FVATQSSACV	DGPANH			336

Seq ID NO: C374 Protein Sequence
Protein Accession #: NP_005463.1

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1	11	21	31	41	51	
METTINGTETW	YESLHAVALKA	LNATLHSNLL	CRPGPGLGPD	NQTEERRASL	PGRDDNSYMY	60
ILFVMEFLFAV	TVGSLILGYT	RSRKVDKRS	PYHVYIKNRV	SMI		103

Seq ID NO: C375 Protein Sequence
Protein Accession #: NP_005236.1

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1	11	21	31	41	51	
MGRHALLLL	LLLLFOHFGD	SDGSQRLEQT	PLQFTHLEYN	VTVQENSAAK	TYVGHVPKMG	60
VYITHPAWEV	RYKIVSGDSE	NLPKAEYIIL	GDFCFIRIRT	KGGNTAILNR	EVKDHYYTLIV	120
KALEKNTNVE	ARTKVRVQVL	DTNDRPLFS	PTSYSVSLPE	NTAIRTSIAR	VSATDADIGT	180
NGEFPYSFKD	RTDMFAIHPT	SGVIVLTGRL	DYLETKLYEM	EILAADRGMK	LYGSSGISSM	240
AKLTVHIEQA	NECAPVITAV	TLSPSELDRD	PAYAIIVTDD	CDQGGANGDIA	SLSIVAGDLL	300
QQFRTVRSFP	GSKEYKVKAI	GDIDWDSHPF	GYNLTLQAKD	KGTPPQFSSV	KVIHVTSPQF	360
KAGPVKEFD	VYRAEISEFA	PENTPVVMVK	ALPAYSHLRY	VFKRTPGKAK	FSLNVTGLI	420
SILEPVKRQK	AAHPELEVTT	SDRKASTKVL	VKVLGANSNP	PEFTQTAYKA	AFDENVPITG	480
TIMLSAIVDP	DEGENGVITY	SIANLNHVFF	AIDHPTGAVS	TSENLDYELM	PRVYTLIRRA	540
SDWGLPYRRE	VEVLATITLN	NLNDNTPLFE	KINCEGTIPR	DLGVGEQITT	VSAIDADELQ	600
LVQYQIEAGN	ELDLFSLNPN	SGVLSLKRLS	MDGLGAKVSP	HSLRITATDG	ENPATPLYIN	660
ITVAASHKLV	NLQCEETGVA	KMLAEKLLQA	NKLHNQGEVE	DIFFDSSHVN	AHIPQFRSTL	720
PTGIQVKENQ	PVGSSVIFMN	STDLDTGFGN	KLVAVSGGN	EDSCFMIDME	TGMLKILSPL	780
DRETTDKYTL	NITYVDLGIP	QKAAWRLHVV	VVVDANDNPP	EPLQESYFVE	VSEDKEVHSE	840
IIQVEATDND	LGPNGHVTYS	ILTDITDTSI	DSVTGVVNI	RPLDRELQHE	HSLKIEARDQ	900
AREEPQLFST	VVVVSLSDV	NDNPPTFIPP	NYRVKVRDEL	PEGTVMWLE	AHDPDLGQSG	960
QVRYSLLDHG	EGNFVDVKLS	GAVRIVQQLD	FEKKQVYNLT	VRAKDKGKPV	SLSSTCYVEV	1020
EVVDVNVENH	PPVFSFVEK	GTVKEDAPVG	SLVMTVSAHD	EDAGRDGEIR	YSIRDGSGVG	1080
VFKIGRETVG	IETSDRLDRE	STSHYWLTVF	ATDQGVVPLS	SPIEYIEVE	DVNDNAPQTS	1140
SPVYIVDITN	NSPKDVSUVQ	IEAFDPDSSS	NDKLMYKITS	GNPQGFSSIH	PKTGLITITS	1200
RKLDREQQDE	HILEVTVTDN	GSPPKSTIAR	VIVKILDEND	NKPQFLQKPY	KIRLPEREKP	1260
DRERNARREK	LVRVIATDKD	EGFNAEISYS	IEDGNEHGKF	FIEPKTGVS	SKRFSAAAGEY	1320
DILSIKAVDN	GRPQKSSSTR	LHIEWISKPK	QSLEPISFEE	SFTFTVMES	DPVAHMIGVI	1380
SVEPPGIPLV	FDITGGNYDS	HFDVDKGTGT	IIVAKPLDAE	QKSNYNLTVE	ATDGTITILT	1440
QVFIKVIDTN	DRPKQFSTSK	YEVVIPEDTA	PETBILQISA	VQDEKNKLI	YTLQSSRDPL	1500
SLKKFRIDPA	TGSLYTSSEK	DHEAVSPAHL	TVMVRQDVP	VKNRFARIVV	NVSDTNDHAP	1560
WFTASSYVGS	VYSAVGSV	VLQVTALDKD	KGKNAEVLVS	IESGNIGNIG	NSFMIDPVLG	1620
SIKTAKELDR	SNQAEYDLMV	KATDKGSPPM	SEITSVRIFV	TIADNASPKF	TSKEYSVELS	1680
ETVSGSFVG	MVTAHSQSSV	VYEIKDNGTG	DAFDINPHSG	TIITQKALDF	ETLPIYTLII	1740
QGTNNAGLST	NTTVLVHLQD	ENDNAPVPMQ	AEYTGILISES	ASINSVVLTD	RNVPLVIRAA	1800

	DADKDSNALL	VYHIVEPSVH	TYFAIDSSTG	AIHTVLSLDY	BETSIFHFTV	QVHDMGTPRL	1860
	FAEYANAVTV	HVIDINDCPF	VFAKPLYEAS	LLLPTYKGVK	VITVNATDAD	SSAFSOLIIYS	1920
	ITEGNIGKEF	SMDYKTGALT	VQNTTQLRSR	YELTVRASDG	RFAGLTSVKI	NVKESKESHL	1980
5	KFTQDVYSAV	VKENSTEAE	LAVITAIGSP	INEPLFYHIL	NPDRRFKISR	TSGVLSTTGT	2040
	PFDREQQEAF	DVVVEVIEEH	KPSAVAHVVV	KVIVEDQNDN	APVFVNLPY	AVVKVDTEVG	2100
	HVIRYVTAVD	RDSGRNGEVH	YYLKEHHEHF	OIGPLGEISL	KKQFELDTLN	KEYLVTTVAK	2160
	DGGNPAPSAE	VIVPITVMNK	AMPVFEKPFY	SABIAESIQQ	HSPVVHVQAN	SPEGLKVFPYS	2220
	ITDGDPPFSQ	TINFNTGVIN	VIAPLDPEAH	PAYKLSIRAT	DSLTHGAHAEV	FVDIIVDDIN	2280
10	DNPPVFAQQS	YAVTLSEASV	IGTSVVQVRA	TDSDSEPNRG	ISYQMFNGHS	KSHDHPHVD	2340
	STGLISLLRT	LDYEQSRQHT	IFVRAVDGGM	PTLSSSDIVT	VDVTDLNGNP	PLFEQQIYEA	2400
	RISHAPHGH	FVTCVKAYDA	DSSDIDKLQY	SILSGNDHKK	FVIDSATGII	TLNLHRHAL	2460
	KPFYSLNLSV	SDGVFRSSTQ	VHVTVIGGNL	HSPAFLQNEY	EVELAENAPL	HTLVMEVTKT	2520
	DGDSGIYGHV	TYHIVNDFAK	DRFYINERGO	IFTLEKLDRE	TPAEKVISVR	LMAXDAGGKV	2580
	AFCTVNVILT	DDNDNAPQFR	ATKYEVNIGS	SAAKGTSVVK	SASDADEGSN	ADITYAIEAD	2640
15	SESVKENLEI	NKLSGVITTK	ESLIGLENEF	FTFFVRAVDN	GSPSKESVVL	VYVKILPPEM	2700
	QLPKFSEPPY	TTTVSEDPV	GTEIDLIRAE	HSGTVLYSLV	KGNTPESNRD	ESFVIDRQSG	2760
	RLKLEKSLDH	ETTKWYQFSI	LARCTQDDHE	MVASVDVSIQ	VKDANDNSPV	FESSPYEAPI	2820
	VENLPGGSRV	IQRASDADS	GTNGQVMYSL	DQSQSVIEIE	SFAINMETGW	ITTLKELDHE	2880
20	KRDNYQIKV	ASDNGEKLQ	SSTAIVDVT	TDVNDSPPRF	TAEIYKGTVS	EDDPQGGVIA	2940
	ILSTTDADSE	EINRQVTFYI	TGGDPLGQFA	VETIQNEWKV	YVKKPLDREK	RDNVLLTITA	3000
	TDGTFSSKAI	VEVKVLDAND	NSPVCEKTLV	SDTIPEDVLP	GKLIMQISAT	DADIRNAEI	3060
	TYTLLGSGAE	KFKLNPDTGE	LKISTPLDRE	EQAVYHLLVR	ATDGGGRFCQ	ASIVVLTEDV	3120
	NDNAPEFSAD	PAIATVPENT	EPGTLTLTRVQ	ATDADAGLNR	KILYSLIDSA	DGQFSINELS	3180
25	GIIQLEKFLD	RELQAVYTL	LKAVDQGLPR	RLTATGTIV	SVLDINDNPP	VFEYREYGAT	3240
	VSEDILVGT	VLQVYAASRD	IEANAEITYS	IISGNEHGKF	SIDSKTGAVF	IENLDYESS	3300
	HEYILTVEAT	DGGTSPSLSDV	ATVNVNVTDI	NDNTPVFSQD	TYTTVISED	VLEQSVITVM	3360
	ADDADGSPNS	HIHYSIDGN	QSSSPTIDPV	RGEVKVTKLL	DRETISGYTL	TVQASDNGSP	3420
	PRVNTTNYI	DVSDVNDNAP	VFSRGNYSVI	IQENKPVGFS	VLQVLVTD	SSHNGPPFFF	3480
30	TIVTNGDEKA	FEVNYQGVLL	TSSAIKRKEK	DHYLLQVKVA	DNGKPOLSSL	TYIDIRVIEE	3540
	SIYPAILLPL	EIETISSGEE	YSGGVIGKIH	ATDQDVYDTL	TYSLDPQMDN	LFSVSTGGK	3600
	LIAHKKLDIG	QYLLNVSVTD	GKFTTVADIT	VHIRQVTQEM	LNHTIAIRFA	NLTFEEFVGD	3660
	YWRNFQALR	NILGVRNRNDI	QIVSLQSEPE	HPHLDVLLFV	EKPGSAQIST	KQLLHKINSS	3720
	VTDIEEIGV	RILNVFQKLC	AGLDCPWKFC	DEKVSVDSEV	MSTHSTARLS	FVTPRHHRAA	3780
35	VCLCKEGRCP	PVHNGCEDDP	CPEGSECVSD	PWEEKHTCVC	PSGRFGQCPG	SSSMTLTGNS	3840
	YVKYRLTENE	NKLEMKLTMR	LRTYSTHAVV	MYARGTDYSI	LEIHGHRLQY	KFDCGSGPGI	3900
	VSVQSIQVND	QGHHAVALV	NGNYARLVLD	QVHTASGTAP	GTCLKLNLN	VYFFGGHIRQ	3960
	QGRHGRSPQ	VGNFGRGCMQ	SIYLNQELP	LNSKPRSYAH	IBESVDVSPQ	CPLTATEDCA	4020
	SNPCQNGGVC	NPSFAGGYIC	KCSALYIGTH	CEISVNPSS	NPCLYGGTCV	VDNGGFVQCQ	4080
40	RGLYTGRCQ	LSFYCKDEPC	KNGGTCFDSL	DGAVCQCDG	FRGERCQSDI	DECSGNPCLH	4140
	GALCENTHGS	YHCNCSHEYR	GRHCEDAAPN	QYVSTPWNIG	LAEGIGIVVF	VAGIFLLVVV	4200
	FVLCRRMISR	KXGHAEPKD	KHLGPATAPL	QRFYFDSKLN	KNIYSDIPPQ	VVPVRISYTP	4260
	SIPSDSRNNL	DRNSFEGSAI	PEHPEFSTFN	PESVHGERKA	VAVCSVAPNL	PPPPPSNSPS	4320
	DSDSIQKPSW	DFDYDTKVVD	LDPCLSKKPL	EEKPSQPYSA	RESLSEVQSL	SSFQSESCDD	4380
45	NGYHWOTSDW	MPSVPLPDQ	EFPMYEVIDE	QTPLYSADPN	AIDTDYYPFG	YDIESDFPPP	4440
	PEDFPAADRL	PPLPEFSNQ	FESIHPPRDM	PAAGSLGSSS	RNRQRFLNQ	YLPNFYPLDM	4500
	SEPTKGTGTE	NSTCREPHAP	YPPGYQRHFE	APAVESMPMS	VIASASCSD	VSACCEVESE	4560
	VMSDYESGD	DGHFEVTTIP	PLDSQQHTEV				4590

Seq ID NO: C376 Protein Sequence
Protein Accession #: NP_055035.1

	1	11	21	31	41	51	
55	MCYKGCARCI	GHSVLGLALL	CIAANILLYF	PNGETKYASE	NHLSRFVWFF	SGIVGGGLLM	60
	LLPAFVFIGL	EQDDCCSCCG	HENCGKRCAM	LSSVLAALIG	IAGSGYCVIV	AALGLAEGPL	120
	CLDLSQGMNY	TPASTEQQYL	LDTSTWSECT	EPKHIVEWNV	SLFSILLALG	GIEFILCLIQ	180
	VINGVLGGIC	GFCCSHQQYQ	DC				202

Seq ID NO: C377 Protein Sequence
Protein Accession #: NP_003750.1

	1	11	21	31	41	51	
65	MSTENVGKPK	SNLGERGRAR	SSTFLRVVQP	MFNHSIPTS	VSPAARIRF	ILGEEDDSPA	60
	PPQLFTELDE	LLAVDQGEHE	WKETARWIKF	EEKVEQGGER	WSKPHVATLS	LHSLFELRTC	120
	MEKSGSILDR	EASSLPQVLE	MIVDHQIETG	LLKPELKDQV	TYTLRKRHRH	QTKKNLRLSL	180
	ADIGKTVSSA	SRMFTNPENG	SPAMTHRNLT	SSSLNDISDK	PEKDQLKQNF	MKKLPDRAEA	240
	SNVLVGEVDF	LDTPIAFVFR	LQQAVALGAL	TRVPVPTREF	FILLGPKGKA	KSYHEIGRAI	300
70	ATLMSDEVFH	DIAYKAKDRH	DLIAGIDEFL	DEVIVLPPEG	WDPAIRIEPP	KSLPSSDKRK	360
	NMYSGGENVQ	MNGDTPHDGG	HGGGGHGDCE	ELQRTGRFCG	GLIKDIKRKA	PFASFDFYDA	420
	LNIALSAIL	FIYLATVINA	ITFGGLLGDA	TDMQGVLES	FLGTAVSGAI	FCLFAGQPLT	480
	ILSSTGTVLV	FERLLNFESK	DNNFDYLEFR	LWIGLWSAPL	CLILVATDAS	FLVQYPTRPT	540
	EEGFSLLISF	IFIYDAFKKM	IKLADYYPIN	SNFKVGYNTL	FSCTCVPPDP	ANISISNDIT	600
75	LAPEYLTMS	STDYHNTTF	DWAFLSKKEC	SKYGGNLVGN	NCFNVPDITL	MSFILFLGTY	660
	TSSMALKKFK	TSPYPTTAR	KLISDFAILL	SILIFCVIDA	LVGVDPKLI	VPSEFKPTSP	720
	NRGWFPVPPG	ENPWWVCLAA	AIPALLVITL	IFMDQKITAV	IVNRKEHKLK	KGAGYHLDLF	780
	WVAILMVICS	LMALPWYVAA	TVISIAHIDS	LKMETETSAP	GEQPKFLGVR	EQRVVTGTLVF	840
	ILTGLSVEMA	PILKPIPMPV	LYGVFLYMGV	ASLNGVQFMD	RLKLLMLPLK	HQPDFIYLRH	900
80	VPLRRVHLFT	FLQVLCALL	WILKSTVAAI	IFPVMILALV	AVRKGMDYLF	SHDLSFLDD	960
	VIPEKDKKKK	EDEKDKKKKK	GSLSDNDSDS	DCPYSEKVP	IKIFMDIMEQ	QPFLSDSKPS	1020
	DRERSPTFLE	RHTSC					1035

Seq ID NO: C378 Protein Sequence
Protein Accession #: NP_000949.1

1 11 21 31 41 51
 5 MSTPGVNSSA SLSPDRLNSP VTIPAVMFIF GUVGNLVAIV VLCKSRKEQK ETTFTYTLVCG 60
 LAVTDLLGTL LVSPVTIATY MKGQWPGGQP LCEYSTFILL FFSLSGLSII CAMSVERYLA 120
 INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTWC FIDWTTNVTA 180
 HAAYSYMYAG FSSFLILATV LCNVLVCGAL LRMHRQFMRR TSLGTEQHHA AAAASVASRG 240
 HPAASPALPR LSDFRRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLVV RVFVNQLYQP 300
 10 SLEREVSQNP DLQAIRIASV NPILDPMIYI LLRKTIVLSKA IEKIKCLFCR IGGSRRRERSG 360
 QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLPLDLS LPDLSENGLG GRNLLPGVFG 420
 MGLAQEDTTS LRLTRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET 480
 LNLSEKCI 488

15 Seq ID NO: C379 Protein Sequence
 Protein Accession #: NP_002650.1

1 11 21 31 41 51
 20 MGHPPLLPLL LLLHTCVFAS WGLRCMQCKT NGDCRVEECA LGQDLCRTTI VRLWEEGEEL 60
 ELVERSCTHS EKTNRTLISYR TGLKITSLTE VVCGLDLQNG GNSGRAVITYS RSRYLECISC 120
 GSSDMSCERG RHQSQCRCSP EEQCLDVVTH WIQEGEGRRP KDDRHLRGCG YLPGCPGSGNG 180
 FHNNDTFHFL KCCNTTKCNE GPILLENLP QNGRCQYSCK GNSHGCSSSE ETFLIDCRGP 240
 MNQCLVATGT HEFKNQSYMV RGCATASMCQ HAHLGDAFSM NHIDVSCCTK SGCNHPDLDV 300
 25 QYRSGAAPQP GPAHLSTLIT LLMTARLWGG TLLWT 335

25 Seq ID NO: C380 Protein Sequence
 Protein Accession #: BAB55406.1

1 11 21 31 41 51
 30 MDEFSGQVDP LASVILPPNL LENLSPEDSV LVRRQAQTFPF NKTGLPQDVG PQRKTLVSVV 60
 MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN KNSFGGWNT SGCVAHRDSD 120
 ASETVCLCNH FTHFGVLMOL PRSASQLDAR NTKVLTPISY IGCGISAIPI AATLLTYVAF 180
 35 ELRRDYPSK ILMNLSTALL FLNLLFLLDG WITSFNVDEL CIAVAVLLHF FLATFTWNG 240
 LEAHHMYIAL VKVFNTYIRR YILKFCIIGW GLPALVVSUV LASRNNNEVY GKESYGKEKG 300
 DEFCWIDQDV IFYVTTCAGY GVMPFLNIAM FIVVMVQICG RNRKRSNRTL REEVLNRLS 360
 VVSLTFLQGM TWGFAPFAMG PLNIPFMYLF SIFNSLQGLF IFIFHCAMKE NVQKQWRRL 420
 CCGRFRLADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN STYLTSKSKS SSTTYPKRNS 480
 40 HTDNVSYERS FNKSGSLRQC FHGQVLVKTG PC 512

40 Seq ID NO: C381 Protein Sequence
 Protein Accession #: NP_000565.1

1 11 21 31 41 51
 45 MTVARPSVPA ALPILGELPR LLLLVLLCLP AVWGDGCLPP DVPNAQPALE GRTSPPEDTV 60
 ITYKCEESFV KIPGEKDSVI CLKGSQWSDI BEPCNRSCFV PTRLNSASLK QPYITQNYFP 120
 VGTVVVEYCR PGYRREPSLS PKLTCLQNLK WSTAVEFCKK KSCPMPGEIR NGQIDVPGGI 180
 50 LFGATISFSC MTGKYLFGST SSFCLISGSS VQWSDPLPEC REIYCPAPPQ IDNGIIQGER 240
 DHYGYRQSVT YACNKGPMTI GEHSIYCTVN NDEGEWSGPP PEGRGKSLTS KVPPTVQKPT 300
 TVNVPTTEVS PTSQKTTTKT TTPNAQATRS TPVSRITTKHF HETTPNKGSG TTSGTTRLLS 360
 GHTCFTLTGL LGTLVTMGLL T 381

55 Seq ID NO: C382 Protein Sequence
 Protein Accession #: Eos sequence

1 11 21 31 41 51
 60 MDTSLRLGVL SLPVLLQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL 60
 PSNLSVFTSY LDLSMNNISQ LLPNPLPSLR FLEELRLAGN ALTYIPKGAF TGLYSLKVLN 120
 LQNNQLRHVP TEALQNLRLS QSLRLDANH I SYVPPSCFSG LHSRLRLWLD DNALTEIPVQ 180
 AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVVLHLHNN RIHSLGKKCF DGLHSLTLD 240
 LNYNNLDEFP TAIRTLNLK ELHFYDNPIQ FVGRSAFQHL PELRTLTLNG ASQITEFPDL 300
 65 TGATANLESL LTGAQISSLP QTVCNQLENL QVLDLSYNLL EDLPFSFSVQC KLQKIDLRHN 360
 EYIEIKVDTF QQLLSRLSLN LAWNKIAIHH PNAFSTLPSL IKLDLSSNLL SSFPTITGLHG 420
 LTHLKLGTGN ALQSLISSEN FPFLKVIEM YAYQCCAFV CENAYKISNQ WNKGDNSMD 480
 DLHKDAGMF QAQDERDLED FLDDPREDLK ALHSVQCSPS PGFPKPCERH LDGWLIRIGV 540
 WTI AVLALTC NALVTSTVFR SPLYISPIKL LIGVIAAVNM LTGVSSAVLA GVDAPTFGSG 600
 70 ARHGAWWENG VGCHVIGFLS IFASESSVFL LTLAALERG SVKYSKAFET KAPFSSLKVI 660
 ILLCALLALT MAAVPLLGGS KYGASPLCLP LPPGEPSTMG YMVALLLNS LCFMMTIAY 720
 TKLYCNLDKG DLENIWDCSM VKHIALLLFT NCILNCPVAF LSPSSLINLT FISPEVIKFI 780
 LLVVVPLEAC LNPLLYILFN PHFKEDLVSL RKQTYVWTRS KHPSLMSINS DDVEKQSCDS 840
 TQALVTFTSS SITYDLPPSS VSPAPYVTE SCHLSSVAFV PCL 883

75 Seq ID NO: C383 Protein Sequence
 Protein Accession #: NP_003658.1

1 11 21 31 41 51
 80 MDTSLRLGVL SLPVLLQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL 60
 PSNLSVFTSY LDLSMNNISQ LLPNPLPSLR FLEELRLAGN ALTYIPKGAF TGLYSLKVLN 120
 LQNNQLRHVP TEALQNLRLS QSLRLDANH I SYVPPSCFSG LHSRLRLWLD DNALTEIPVQ 180
 AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVVLHLHNN RIHSLGKKCF DGLHSLTLD 240
 LNYNNLDEFP TAIRTLNLK ELGFHSNNIR SIPEKAFVGN PSLITIRFYD NPIQFVGRSA 300

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FOHLELRLT TLNGASQITE FPDLTGTANL ESLTLTGAQI SSLPQTVCNQ LPNLQVLDLS 360
YNLLEDLPFS SVCQRLKQID LRHNEIYEIK VDTFQQLLSL RSLNLAWNKI AIIHPNAFST 420
LPSLILKLDLS SNLLSSPFI GLHGLTHLKL TGNHALQSLI SSNFPELKV IEMPYAYQCC 480
AFGVCEWAYK ISNQWNGDND SSMDLHKKD AGMPQAQDER DLEDPLDPE EDLKALHSVQ 540
CSPSPGPFKP CEHLDDGLWI RIGVWTIAVL ALTCLALVTS TVFRSPLYIS PIKLLIGVIA 600
AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFLSIFASES SVFLTLAAL 660
ERGFSSVKYSA KPETKAPFSS LKVIILLCAL LALTMAAVPL LGSSKYGASP LCLPLPFGEF 720
STMGYMVALI LLNSLCFLMM TIATKLYCN LDKGDLENIW DCSMVKHIAL LLFTNCILNC 780
VFAFLSFSSL INLTIFISPEV IKFILLVVPV LPACLNPPLY ILFNPHFKED LVSLRKQTVV 840
WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVSPSPAY PVTESCHLSS 900
VAFVPC 907

Seq ID NO: C384 Protein Sequence
Protein Accession #: NP_003497.1

1 11 21 31 41 51
MEMFTLLTC IFLPLLRGHS LFTCEPITVP RCMKMAYNMT FFPNLMGHYD QSIAAEMEH 60
FLPLANLECS PNLETFLCKA FVPTCIEQIH VVPPCRKLCE KVSDDCKLI DTFGIRWPEE 120
LECDRLQYCD ETVPVTFDFH TEFLGPQKKT EQVQRDIGFW CPHRLKTSQG QGYKFLGIDQ 180
CAPPCFNMYF KSDELEFAKS FIGTVSIFCL CATLFTLTF LIDVRRFRYP ERPIIYSVC 240
YSIVSLMYFI GFLGDSSTAC NKADEKLELG DTVVLGSQNK ACTVLFMLLY FPMAGTVWW 300
VILTITWFLA AGRKWSCAEI EQKAVWFHAV AWGTPGFLTV MLLALNKVEG DNISGVCFVG 360
LYDLASRYF VLLPLCLCVF VGLSLLLAGI ISLNHVRQVI QHDGRNQEKL KPFMIRIGVF 420
SGLYLVPIWT LLGCYVYBQV NRITWEITWV SDHCRQYHIP CPYQAKAKAR PELALFMKY 480
LMTLIVGISA VFVWGSKKTC TEWAGPFKRN RKRDPISER RVLQESCEFF LGHNSKVKKH 540
KKHYKPSHHK LKVISKSMGT STGATANHGT SAVAITSHDY LQSTLTLEIQ TSPETSMREV 600
KADGASTPRL REQDCGEPAS PAASISRLSG EQVDGKGQAG SVSESARSEG RISPKSDITD 660
TGLAQSNILQ VPSSSEFSSL KGSTSLLVHP VSGVRKBQGG GCHSDT 706

Seq ID NO: C385 Protein Sequence
Protein Accession #: NP_000573

1 11 21 31 41 51
MRIAIVICFCL LGITCAIPVK QADSGSSEK QLYNKYPDAV ATWLNPDPSQ KQMLLAPQTL 60
PSKSNESHDD MDDMDDEDD DHVDSQDSID SNDSDDVDDT DSHQSDSHS HSDSEDELVT 120
DFPTDLFATE VFTPVVPTVD TYDGRGDSV YGLRSKSKKF RRPDIQYPA TDEDITSHME 180
SEELNGAYKA IPVAQDLNAP SDWDSRGKDS YETSQLDDQS AETHSHKQSR LYKRKANDES 240
NEHSDVIDSQ ELSKVSREFH SHEPHSHEDM LVVDPKSKEE DKHLKFRISH ELDSASSEVN 300

Seq ID NO: C386 Protein Sequence
Protein Accession #: NP_002812

1 11 21 31 41 51
MGAARGSPAR PRRLPILLSV LPLLLGGTQT AIVFIKQPSS QDALQGRAL LRCEVEAGP 60
VHVYNLLDGA FVQDTERRFA QGSSLSFAAV DRLQDSGTFQ CVARDDVTGE BARSANAFN 120
IKWIEAGFVV LKHPASEAEI QPQTQVTLRC HIDGHPRTY QWFRDGTPLS DGQSNHTVSS 180
KERNLTLRPA GREHSGLYSC CAHSFAGQAC SSQNFSLISA DESFARVILA PQDVVVARYE 240
EAMFHQCQFA QPPPSLQWLF EDETPTNRS RPPHLRRATV FANGSLILTQ VRPRNAGIYR 300
CIGQQQRGPP IILEATLHLA EIEDMPLFEP RVFTAGSEER VTCLPKGLP EPSVWWEHAG 360
VRLPTHGRVY QGHLELVLAN IAESDAGVYT CHAANLAGQR RQDVNITVAT VPSWLKKPD 420
SQLBEGKFGY LDCLTQATPK PTVVWYRNQM LISEDSRFEV FKNGTLRINS VEYDGTWYR 480
CMSSTPAGSI EAQARVQVLE KLKFTFPBPQ QOCMEFDKEA TVPCSATGRE KPTIKWERAD 540
GSSLPENVTD NAGTLHFARV TRDDAGNYTC IASNGPQQI RAHVQLTAV PITFKVEPER 600
TTVYQHTAL LQCEAQDPK PLIQWKGDR ILDPTKLGR MHIFQNGSLV IHDVAPEDSG 660
RYTCIAGNSC NIKHTBAPLY VVDKPVPEES EGPSPPPYK MIQTIGLSVG AAVAYIIAVL 720
GLMFYCKKRC KAKRLQKQPE GEPEMECLN GGPLQNGQPS AEIQEEVALT SLGSGPAATN 780
KRHSTDOKH FPRSSLPIT TLGKSEFGEV FLAKAQGLEE GVAETLVLVK SLQTKDEQQQ 840
LDFRRELEMP GKLNHANVVR LLGLCREAEP HYMWLEYVDL GDLKQFLRIS KSKDEKLKSQ 900
PLSTQKVAL CTQVALGMEH LSNNRFVHKD LAARNCLVSA QRQVKVSALG LSKDVYNSBY 960
YHFRQAVPL RMMSPEALE GDFSTKSDVW AFGVLMWEVF THGEMPHGG ADDEVLDLQ 1020
AGKARLPQPE GCPSKLYRLM QRCWALSPK RPSFSEIASA LGDSTVDSKP 1070

Seq ID NO: C387 Protein Sequence
Protein Accession #: NP_002300.1

1 11 21 31 41 51
MKVLAAGVVP LLLVLHWKHG AGSPLPITPV NATCAIRHPC HNNLMNQIRS QLAQLNGSAN 60
ALFILYTTAQ GEPPFNLDK LCGPNVTDFF PFHANGTEKA KLVELYRIVV YLGTSIGNIT 120
RDQKILNPSA LSLHSLKLNAT ADILRGLLSN VLCRLCSKYH VGHVDVTYGP DTSGKDVFK 180
KKLGCCLLGK YKQIIAVLAQ AF 202

Seq ID NO: C388 Protein Sequence
Protein Accession #: XP_097508

1 11 21 31 41 51
MGRPRLTLVC HVSIISARD LSMNNLTELO PGLFHHLRFL EBLRLSCNHL SHIPQAFSG 60
LYSLKILMLQ NNQLGGIPAE ALWELPSLQS LRLDANLISL VPERSFEGLS SLRHLWLDN 120
ALTEIPVRAL NNLPAQAMT LALNRISHIP DYAFQNLTSL VVLHLHNNRI QHLGTHSFBG 180
LHNLETLDN YNKLQEPFVA IRTLGRLEQL GFHNNNIKAI PEKAFMGNPL LQTIHFYDNP 240

5 IQFVGRSAFQ YLPKHLTSL NGAMDIEFF DLKGTTSLEI LTLTRAGIRL LPSGMCQQLP 300
 RLRVLELSHN QIBELPSLHR CQKLEELGLQ HNRWIEIGAD TFSQLSSLQA LDLSWNAIRS 360
 IHPEAFSTLH SLVKLDLTDN QLTTPLAGL GGLMHLKLG NLALSQAFSK DSFFKLRILE 420
 VPIAYQCCPY GWCASFEEKAS GQWEAEDLHL DDESSKRPL GLLARQAEHN YDQDLDEIQL 480
 EMEDSKPHPS VQCSPTPGPF KCPEYLFESW GIRLAVNAIV LLSVLCNGLV LLTVFAGGPV 540
 10 PLPPVKFVVG AIAGANTLTG ISCGLLASVD ALTFQGFSEY GARWETGLGC RATGFPLAVLG 600
 SEASVLLTL AVQCSCSVS CVRAYGKSPS LGSVRAGVLG CLALAGLAAA LPLASVGEYG 660
 ASPLCLPYAP PEGQPAALGF TVALVMNSF CFLVVAGAYI KLYCDLPRGD FEAVMDCAMV 720
 RHVAMLIFAD GLLYCPVAFI SFASMLGLFP VTPEAVKSVL LVVLPPLACL NPLLYLLFNP 780
 HFRDLDRLR PRAGDSGFLA YAAAGELEKS SCDSTQALVA FSDVDLILEA SEAGRPPGLE 840
 TYGFPSTLI SCQPGAPRL ESHCCEVEEG NHFGNPQPSM DGEILLRAEG STPAGGGLSG 900
 GGGFQPSGLA FASHV 915

15 Seq ID NO: C389 Protein Sequence
 Protein Accession #: NP_570901

1 11 21 31 41 51
 20 MASLVSELEL LLLAVLVVTA TASPPAGLLS LITSGQGALD QEALGGLLNT LADRVHCTNG 60
 PCGKCLSVED ALGLGEPEGS GLPPGPVLEA RYVARLSAAA VLYLSNPEGT CEDTRAGLWA 120
 SHADHLALL BSPKALTPLG SWLLQRMQAR AAGQTPKTAC VDIPLLEEA VGAGAPGSAG 180
 GVLAALLDHV RSGSCFHALP SPQYFVDFVF QQHSSEVPMT LAELSALMQR LGVGREAHSD 240
 HSHRHRGASS RDPVPLISSS NSSSVWDIVC LSARDVMAAY GLSEQAGVTP EAWAQLSPAL 300
 25 LQQQLSGACT SQSRPPVQDQ LSQSERLYLG SLATLLICLC AVFGLLLTLC TGCGRGAHYI 360
 LQTFLSLAVG ALTGDAVLHL TPKVLGLHHT SEEGLSQPPT WRLLAMLAGL YAFPLFENLF 420
 NLLLPDPED LEDGPGCGHSS HSHGGHSHGV SLQLAPSELK QPKPHEGSR ADLVAEESPE 480
 LLNPEPRRLS PELRLLPYMI TLGDAVHNFA DGLAVGAFA SSWKTGLATS LAVFCHLEPH 540
 ELGDFAALIH AGLSVRQALL LNLASALTAF AGLYVALAVG VSESEANIL AVATGLFLYV 600
 30 ALCDMLFAML KVRDPRFWLL FLHNVGLLG GWTVLLLSL YEDDITF 648

Seq ID NO: C390 Protein Sequence
 Protein Accession #: NP_061844

1 11 21 31 41 51
 35 MANASEPGGS GGGEEAALGL KLATLSLLLC VSLAGNVLFA LLIVRERSLH RAPIYLLLDL 60
 CLADGLRALA CLPAVMLAAR RAAAAGAPP GALGCKLLAF LAALCFHAA FLLLGVGVTR 120
 YLAIAHRHFY AERLAGWPCA AMLVCAAWAL ALAAAFPPVL DGGGDDDEDAP CALEQRPDGA 180
 40 PGALGFLLLL AVVVGATHLV YLRLLFFIHD RRMMPARLV PAVSHDWFH GPGATGQAAA 240
 NWTAGFGRGP TFPALVGIRP AGPGRGARRL LVLEEFKTEK RLCKMFYAVT LLELLWGPY 300
 VVASYLRLV RFGAVQAYL TASVWLTFAQ AGINPVVCFI FNRELRCDFR AQFPCCQSPR 360
 TTQATHPCDL KGIGL 375

45 Seq ID NO: C391 Protein Sequence
 Protein Accession #: NP_005622

1 11 21 31 41 51
 50 MAAARPARGP ELPLGLLLLL LLLGDPGRGA ASSGNATGPG PRSAGGSARR SAAVTGPPPP 60
 LSHCGRAAPC EPLRYNVCIG SVLPYGATST LLAGDSDSQE EAHGKLVLS GLRNAPRCWA 120
 VIQPLLCNAV MPKCEMDRVE LPSRTLQAT RGPCAIVERE RGNPDFLRCT PDRFPEGCTN 180
 EVQNIKFNSS GQCEVPLVRT DNPKSHYEDV EGGGIQCNQ LFTAEASHQM HSYIAAFGAV 240
 TGLCTLPFLA TTVADWRNSI RYPAVILFYV NACFFVGSIG WLAQFMGAGR REIVCRADGT 300
 55 MRLGEPTNSE LSCVIFVI VYVALMAGV WVVVLYAMH TSFKALGTYY QPLSGKTSYF 360
 HLLTWSLEPV LTVAILAVAQ VDGDVSGIC FVGKYNRYR AGFVLAPIGL VLVVGGYFLI 420
 RGVMTLPSIK SNHFGLLSEK AASKINETML RLIGIFGLAF GFVLITFSCH FYDFPNQAEW 480
 ERSFRDYVLC QANVTIGLPT KQPIPDCEIK NRPSLLVEKI NLFAMFGTGI AMSTVWVTKA 540
 TLLIWRWTC RLTGQSDDEP KRIKSKMIA KAPSKRHELL QNPQELSPS MHTVSHDGPV 600
 60 AGLAFDLNEP SADVSSAWAQ HVTKMVARRG AILEQDISVT PVATPVPEE QANLWLVEAE 660
 ISPELQKRLG RKKKRRKRKK EVCPLAPPE LHPPAPAPST IPRLPQLPRQ KCLVAAGAWG 720
 AGDSCRQAG TLVSNNFCPE PSPPQDFFLP SAPAPVAAH GRRQGLGPIH SRTNLMDEL 780
 MDADSD 788

65 Seq ID NO: C392 Protein Sequence
 Protein Accession #: BAC04382

1 11 21 31 41 51
 70 MGARSGARGA LLLALLLCWD PRLSQAGRKR SGEVLPDSFP SAPAEPLPYE LQEPQDAYIV 60
 KNKPVELRCR AFPATQIYFK CNGEWVSQND HVTQEGLEDA TLGARGGLRV REVQIEVSRQ 120
 QVEELPGLD YWCQCVAWSS AGTTKSRAY VRIAYLRKNF DQEPGLKEVP LDHEVLLQCR 180
 PPEGVPVAEV EWLKNEVDIV PTQDTNFLT IDHNLIRQA RLSDTANYTC VAKNIVAKRR 240
 STTATVIVV NGGWSSWAEW SPCSNRCGRG WQKRTCTIN PAPLNGGAF C EQAFQKTAC 300
 75 TTICPVDAW TEWSKWSACS TECAHWSRE CMAPPQNGG RDCSGTLLDS KNCTDGLCMQ 360
 NKITLSDPNS HLEASGDAA LYAGLVVAIF VVAILMAVG VVVYRNCRD FDTIDTSSA 420
 ALTGPFHPVN FKTRPSPNP LLHPSVPPDL TASAGIYRGP VVALQDSTDK IPMTNSPLLD 480
 PLPSLKVEVY SSSTGSGPG LADGADLLGV LPPGTYPDSF ARDTHFIHLR SASLGSQQLL 540
 GLPRDPGSSV SGTFGCLGGR LSIPGTGVSL LVPNGAIPQG KFYEMYLLIN KAESTLPLSE 600
 80 GTQTVLSPSV TCGPTGLLLC RPVILTMPHC AEVSARDWIF QLKTAHQGH WEEVVTLDRE 660
 TLNTPCYCOL EPRACHILLD QLGTIVFTGE SYRSRAVKRL QLAVFAPALC TSLEYSRLVY 720
 CLEDTPVALK EVLEELERTLG GYLVEEPKPL MFKDSYHNL LSLHDLPHAH WRSKLLAKYQ 780
 EIPFYHIWSG SQKALHCTFT LERHSLASTE LTCKICVRQV EGGQIPQLH TTLASTPAGS 840
 LDTLCSAPGS TVTTQLGPYA FKIPLSIRQK ICNLDAPNS RGNDRWMLAQ KLSMDRYLNY 900
 FATKASPTGP ILDLWEALQQ DGDILNSLAS ALEEMGKSEM LVAVATDGDG 950

Seq ID NO: C393 Protein Sequence
Protein Accession #: NP_004616

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5      1      11      21      31      41      51
      |      |      |      |      |      |
MNRKARRCLG HLFSLSLGMVY LRIGGFSSVV ALGASIIICNK IPGLAPRQRA ICQSRPDAIL 60
VIGEGSQMGL DECQFQFRNG RWNCSSALGER TVFGKELKVG SREAAFTYAI IAAGVAHAIT 120
10    AACTCGNLSD CGCDKEKQGG YHRDEGWKNG GCSADIRYGI GFAKVFVDAR EIKQNARTLM 180
      NLHNNAGRRK ILEENMKLEC KCHGVSGSCT TKTCWTTLPQ FRELGVYLDK KYNEAVHVPEP 240
      VRASNRKPT FLKIKKPLSY RKPMOTDLVY IEKSPNYCEE DPTGSGVTGQ GRACNKTAPO 300
      ASGCDLMCCG RGYNTHQYAR VWQCNCCKFW CCYVKQNTCS ERTEMCTCK 349

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Seq ID NO: C394 Protein Sequence
Protein Accession #: NP_003777

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15      1      11      21      31      41      51
      |      |      |      |      |      |
MDALCGSGEL GSKFWDNSNL VHTENPDLT CPQNSLLANV PCIYLNVALP CYLLYLRRHC 60
20    RGYIILSHLS KLMVLGVLL WCVSWADLFY SFHGLVHGRA PAPVFFVTPL VVGVTMLLAT 120
      LLIQYERLQG VQSSGVLIIF WFLCVVCAIV PFRSKILLAK ABEISDPFR FTTFYIHFAL 180
      VLSALILACF REKPPFFSAK NVDPNYPYET SAGFLSRLFF WWFTKMAIYG YRHPLSEKDL 240
      WSLKEEDRSQ MVVQQLLEAW RKQEKQTAH KASAAPGKNA SGEDEVLLGA RPRPRKPSFL 300
      KALLATFGSS FLISACFKLI QDLLSFINPQ LLSILIRFIS NPMAPSWWGF LVAGLMFLCS 360
25    MMQSLILQHY YHYIFVTGVK FRTGIMGVY RKALVITNSV KRASTVGEIV NLMVSDAQR 420
      MDLAPPLNLL WSAPLQIILA IYFLWQNLGP SVLAGVAPMV LLIPNLGAVA VKMRAFOVKQ 480
      MKLKDSRIKL MSBILNGIKV LKLYAWEPSP LKQVEGIRQG ELQLLRTAAY LHTTTTFTWM 540
      CSPFLVTLLT LMWVYVDPN NVLDAEKAFV SVSLFNILRL PLNMLPQLIS NLTOASVSLK 600
      RIQQFLSQEE LDQSVVERKT ISPGYAITIH SGTFTWAQDL PPTLHSLDIQ VPKGALVAVV 660
30    GPVGCCKSSL VSALLGEMEK LEGKVHMKGS VAYVPOQAWI QNCTLQENVL FGKALNPKRY 720
      QQTLEACALL ADLEMLPGGD QTEIGERGIN LSGGQRQRVS LARAVYSDAD IFLDDPLSA 780
      VDSHVAKHIF DHVIGPEGVL AGKTRVLVTH GISFLPQTDI IIVLADQVVS EMGPYPALLQ 840
      RNGSFANFLC NYAPDEDQGH LEDSWTALRG AEDKEALLIE DTLSNHTDIT DNDPVTYVVQ 900
      KQPMRQLSAL SSDGEGQGRP VPRRHLPSE RVQVTEAKAD GALTQEEKAA IGTVELSVFW 960
35    DYAKAVGLCT TLAICLLYVG QSAAAIGANV WLSAWTNDAM ADSRQNNISL RLGVYAALGI 1020
      LQGLFVLMLA MAMAAGGQIA ARVLHQALLH NKIRSPQSFF DTPSGRILN CFSKDIYVVD 1080
      EVLAPVILML LNSFFNAIST LVVIMASTPL FTVVILPLAV LYTLVQRFYA ATSRQLKRL 1140
      SVSRSPYISH FSETVTGASV IRAYNRSRDF EIIISDTKVA NQRSCYPYII SNRWLSIGVE 1200
      FVGMCVVLFPA ALFAVIGRSS LNPGLVGLSV SYSLQVTFAL NWMIRMSDL ESNIVAVERV 1260
40    KEYSKTETEA PMWVEGSRPP EGWPPRGEVE PRNYSVRYRP GLDLVLRLDS LHVHGGKVG 1320
      IVGRGTAGKS SMTLCLEFRIL EAAKCEIRID GLNVADIGLH DLRSQLTIIIP QDPIFSGTL 1380
      RMNLDPFGSY SEEDINWALE LSHLHTFVSS QPAGLDFQCS EGGENLSVGQ RQLVCLARAL 1440
      LRKSRLVLVD BATAAIDLST DNLIQATIRT QFDTCTVLT I AHRILNTIMDY TRVLVLDRGV 1500
      VAEDFSPANL IAARGIFYGM ARDAGLA 1527

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Seq ID NO: C395 Protein Sequence
Protein Accession #: NP_004617

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45      1      11      21      31      41      51
      |      |      |      |      |      |
MRARPQVCEA LLFALALQTG VCYGIKWLAL SKTPSALALN QTOHCKQLEG LVSAQVQLCR 60
50    SNLMLMTTV HAAREVMKAC RRAFADMRWN CSSTELAPNY LLDLERTRE SAFVYALSAA 120
      ATSHAIRAC TSGDLPGCSC GPVPGEPGP GNRWGGCADN LSYGLLMGAK FSDAPMKVKK 180
      TGSQANKLMR LNSSEVGRQA LRASLEMKCK CHGVSGSCSI RTCWKQLQEL QDVAADLKR 240
55    YLSATKVVRH PMGTAKHLVP KDLDIRPVKD SELVYLQSSP DFCMKNEKVG SHGTQDRQCN 300
      KTSNGSDSCD LMCCGRGYNP YTDVVVERCH CKYHWCCYVT CRRCERTVER YVCK 354

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Seq ID NO: C396 Protein Sequence
Protein Accession #: NP_114072

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60      1      11      21      31      41      51
      |      |      |      |      |      |
MEWGYLLEVT SLLAALALLQ RSSGAAAASA KELACQEITV PLCKGIGYNY TYMPNQFNHD 60
65    TQDEAGLEVH QPWPLVEIQ SPDLKFLLCS MYTPICLEDY KKPLPPCRSV CERAKAGCAP 120
      LMRQYGFANP DMRCDRLPE QGNPDTLCD YNRTDLTAA PSPFRLPPF PPGQPPSGS 180
      GHGRPPGARF PHRGGGRGGG QGDAAAPPAR GGGGGGKARP PGGAAPCEP GCQCRAPMV 240
      VSSERHPLYN RVKTGQIANC ALPCHNPPFS QDERAFTVFW IGLWSVLCFV STFATVSTFL 300
      IDMERFKYPE RPIIFLSACY LFVSVGYLVR LVAGHEKVAC SGGAPGAGGA GGAGGAAAGA 360
      GAAGAGAGGP GGRGEYEELG AVEQHVRYET TGPALCTVVF LLVYFFGMAS SIWNVILSLT 420
70    WFLAAGMKWG NEALAGYSQY FFLAANLVPS VKSIAYLALS SVDGDPVAGI CYVGNQSLDN 480
      LRGFVLAPLV IYLFIGTMFL LAGFVSLFRI RSVIKQDGP TKTHKLEKLM IRLGLFTVLY 540
      TVPAVVVAC LFYEQHNRRP WEATHNCPCL RDLQPDQARR PDYAVFMLKY FMCLVVGITS 600
      GVVWSGKTL ESWRSLCTRC CWASKGAAVG GGAGATAAGG GGGPGGGGGG GPGGGGGPGG 660
75    GGGSLYSDVS TGLTWSGTA SSVSYPRQME LSQV 694

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Seq ID NO: C397 Protein Sequence
Protein Accession #: XP_050625

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80      1      11      21      31      41      51
      |      |      |      |      |      |
MLQPGGSLLL LFLASHCCLG SARGLFLFGQ PDFSYKRSNC KPIPANLQLC HGIEYQNMRL 60
      PNLGHEHMK EVLEQAGAWI PLVMKQCHPD TKKFLCSLFA FVCLDDLDLQ IQPCHSLCVQ 120
      VKDRCAVVMG AFGFPFMDL ECDRFPQDND LCIPASSDH LLPATEAPK VCEACKNKND 180
      DDNDIMETLC KNDPALKIKV KEITYINRDT KIILETSKT IYKLVGVSER DLKKSVLWLK 240

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DSLQCTCEEM NDINAPYLVN GQKQGGELVI TSVKRWQKGQ REFKRISRSI RKLQC 295

Seq ID NO: C398 Protein Sequence
Protein Accession #: NP_001297.1

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1	11	21	31	41	51	
MSMGLSITGT	ALAVLGLWLT	IVCCALPMWR	VSAPIGSNII	TSQNIWEGW	MNCVVQSTGQ	60
MQCKVYDSL	ALPQDLQAAR	ALIVVAILLA	AFGLLVALVG	AQCTNCVQDD	TAKAKITIVA	120
GVLPLLAALL	TLVPVSWSAN	TIIRDPYNPV	VPEAQKREMG	AGLYVGWAAA	ALQLLGGALL	180
CCSCPPEKK	YTATKVYISA	PRSTGPGASL	GTGYDRKDYV			220

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20

Seq ID NO: C399 Protein Sequence
Protein Accession #: NP_036581.1

1	11	21	31	41	51	
MESRKDITNQ	BELWKMKPRR	NLEEDDYLHK	DTGETSMLKR	PVLLHLHQTA	HADEFDCPSE	60
LQHTQELFPQ	WHLPIKIAAI	IASLTFLYTL	LREVINPLAT	SHQYFYKIP	ILVINKVLPM	120
VSITLLALVY	LPGVIAAIVQ	LHNGTKYKFP	PHWLDKMLT	RKQFGLLSFP	FAVLHAIYSL	180
SYPMRRSYRY	KLNLWAYQQV	QONKEDAWIE	HDVWRMEIYV	SLGIVGLAIL	ALLAVTSIPS	240
VSDSLTWREF	HYIQSKLGIV	SLLLTGTHAL	IFAWNKWIDI	KQFVWYTPFT	FMAVFLPIV	300
VLIFKSILFL	PCLRKILKI	RHGWDVTKI	NKTEICSQL			339

25

Seq ID NO: C400 Protein Sequence
Protein Accession #: NP_001766.1

30

35

1	11	21	31	41	51	
MANCEFSPVS	GDKPCCRLSR	RAQLCLGVSI	LVLILVVVLA	VVPRWRQTM	SGPGTTKRFP	60
ETVLARCVKY	TEIHPEMRHV	DCQSVWDAFK	GAPISKHPCN	ITEEDYQPLM	KLGTQTVPCN	120
KILLWSRIKD	LAHQFTQVQR	DMFTLEDTL	GYLADDLTWC	GEFNTSKINY	QSCPDWRKDC	180
SNNPVSVFWK	TVSRRFAEAA	CDVVHVMLNG	SRSKIFDKNS	TFGSVEVHNL	QPEKVQTLA	240
WVIHGGRS	RDLCQDPTIK	ELESIIKRN	IQFSCNIYR	PDKFLQCVKN	PEDSSCTSEI	300

Seq ID NO: C401 Protein Sequence
Protein Accession #: XP_120513.2

40

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50

1	11	21	31	41	51	
MVSCFSGPL	RETENVKCF	YALRAFPMFR	SSEAAMLGES	RTPKPRKHRA	TTRAKIFKRF	60
FSEGESNSNR	LVEELAVIHT	YSDDPAPPTS	PSSVQPREFG	VMQGAPRARF	GSRTPPAAAE	120
ASSPHLGIGE	AACQSGARAA	APRAGARRCQ	PQRQAAAAAA	TAQTETLPHA	RTRADPAGRR	180
RRHPRSPAPG	GBGTCSEGPA	PRRRMEEMQ	PAEGGPSVVK	IYKQSPYSV	LKTFFSKRPA	240
LAKRYERPTL	VELPHGLHRT	PAQPPASPAA	ASSSSSFAAV	VRIGAPPRPP	RRGFRRAGTI	300
PPLLPAPGVA	GTLILPPPTSS	SPSPRPFRPW	HAAAPRGGTS	HTHMWRSQST	LPGSDTMVSV	360
FGLMAQRWQ	HRSLKQFEWG	ILGSGWTWPC	QDWLEKEGQ	VAVLLPRSEG	NTAPKKSRMI	420
LDAFAQQCSR	VLSLLNCCGK	LLDSNHSQSM	ISCVKQEGSS	YNERQEHCHI	GKGVHQSOTD	480
NVDIEMQYMQ	RKQTSAPFLR	VFTDSLQNYL	LSGSFPTPNP	SSASEYGHIA	DVDPLSTSPV	540
HTLENISLDS	TASLCKSRHL	SREPPVKSDP	PNPLQALAG	GASRPFSGAQ	QSIAYRVNSE	600
LEDGIRSFVP	LSCEALEMDL	TSLGSKQLLN	NYPVYITSKQ	WDEAVNSSKK	DGRRLRLRYLI	660
RFVFTTDELK	YSCGLGKRRK	SVQSGETGPE	RRPLDPVKVT	CLRGTSAPRS	VSPSVISPHR	720
IGCGSPRTSV	QPSVF					735

55

Seq ID NO: C402 Protein Sequence
Protein Accession #: BAA92562.1

60

65

70

1	11	21	31	41	51	
METTTLVSGIN	FEYKGMTGWE	VAGDHIYTAA	GASDNDFMIL	TLVVPGRFRP	QSVMAADTENK	60
EVARITVFVE	TLCSVNCELY	FMVGVSNSRTN	TPVETWKGSK	GKQSYTYIIE	ENTTSFTWA	120
FORITTFHEAS	RKYTNDAKAI	YSINVTNVMN	GVASYCRPCA	LEASDVGSSC	TSCPAGYYID	180
RDSGTCHSCP	PNTILKAHQF	YGVQACVPCG	PGTKNNKIHS	LCYNDCTFSR	NTPTRTFNYN	240
FSALANTVTL	AGGPSFTSKG	LKYFHHFTLS	LCGNQGRKMS	VCTDNVTDLR	IPEGESGFSK	300
SITAYVCQAV	IIPPEVTGYK	AGVSSQPVSL	ADRLIGVTTD	MTLDGITSPA	ELPHLESIGI	360
PDVIFFYRSN	DVTQSCSSGR	STTIRVRCSP	QKTVPGLSL	PGTCSGDTCD	GCNFHPLWES	420
AAACPLCSVA	DYHAIVSSCV	AGIQKTTYVW	REPKLCSGGI	SLPEQRTVIC	KTIDFWLKVG	480
ISAGTCTAIL	LTVLTCYFWK	KNQKLEYKYS	KLVNNATLKD	CDLPAADSCA	IMEGEDVEDD	540
LIFTSKSKSLF	GKIKSFTSKQ	PAPVTISLSE	DS			572

Seq ID NO: C403 Protein Sequence
Protein Accession #: NP_055139.1

75

80

1	11	21	31	41	51	
MALQGISVVE	LSGLAPGRXC	AMVLADFGAR	VVRVDRPGSR	YDVSRRLGRK	RSVLVDLQKP	60
REPRAAASVQ	AVGCAAGALP	PRCHGETPAG	PRDSAAGKSK	AYLQCAEWIW	PVQESFCRLA	120
GHDINYLALS	GVLSKIGRSG	ENPYAPLNLV	ADFAGGGLMC	ALGIIMALFD	RTRTDKQQVI	180
DAMNVEGTAY	LSSFLWKTQK	SSLWEAPRGQ	NMLDGGAPFY	TTYRTADGPF	MAVGAIEPQF	240
YELLIKGLGL	KSDLPNQMS	TDDWPEMKK	PADVFAKTK	AEWCQIPDGT	DACVTPVLTF	300
EEVVHHDHNNK	ERGSFITSEE	QDVSPRLAPL	LLNTPAIPSS	KGDPFFIGET	ESILEEFGFS	360
REBIYQLNSD	KITESNKVKA	SL				382

Seq ID NO: C404 Protein Sequence

Protein Accession #: XP_091332.1

1	11	21	31	41	51		
5	MQRWTLWAA	FLTLHSAQAF	PQTDISISPA	LPPLPLPSLC	PLFWMEFKGH	CYRFFPLNKT	60
	WAEADLYCSE	FSVGRKSAKL	ASIHSWRENV	FVYDLVNSCV	PGIPADVWVG	LHDHRQEGGF	120
	EWTGSSYDY	SYWDGSPDD	GVHADPEED	CVQIWRPTS	EQLQAPPEQL	PLSISEATDV	180
	YLPEDFPAEP	KLMDQSWVSR	KSLKPSKSHL	MEPPTPAKH	QKAKTRHSL	RGVWWPSGKA	240
10	GSWKERMNAD	YGRRRKSAPR	QEGRLRCRER	RLRAASGQGR	PEGQRKQRCQ	ERQERGWEL	300
	GGVSPMRGAQ	AWQHGLGAGS	QRGAAPCEGE	NHQAPFELGST	WRGRLQFPQT	AALCHFALRK	360
	LPGNAHGLAA	AFVQPALQVQ	EKKNNRTRFS	GAYFTMSDPT	CDQDSKEQSL	RRHGREAEDK	420
	GPYRLVKKKR	GVVACPSFE	LQSGGEVCLD	FPVELRAGTW	IAREPP		466

Seq ID NO: C405 Protein Sequence
Protein Accession #: XP_054869.2

1	11	21	31	41	51		
20	MHTCCPPVTL	EQDLHRKMHS	WMLQTLAFV	TSLVLSAET	IDYGEICDN	ACPCEEKDGI	60
	LTVSCENRGI	ISLSEISPPR	FPIYHLLLSG	NLLNRLYPNE	FVNYTGASIL	HLGSNVIQDI	120
	ETGAFHGLRG	LRRHLHLNNK	LELLRDDTFL	GLENLEYLQV	DYNYISVIEP	NAFGKLHLQ	180
	VLILNDNLLS	SLPNNLFRFV	PLTHLDLRGN	RLKLLPYVGL	LQEMDKVVEL	QLEENPWNC	240
	CELISLKDWL	DSISYSALVG	DVVCETPFR	HGRDLDEVSK	QELCPRLIS	DYEMRPOTPL	300
25	STTGILHTTP	ASVNSVATSS	SAVYKPLKP	PKGTRQPNKP	RVRPTSRQPS	KDLGYSNYGP	360
	SIAYQTKSPV	PLECPTACSC	NLQISDLGLN	VNCQERKIES	IAELQPKPYN	PKMYLTENY	420
	IAVVRRTDFL	EATGDLDDLHL	GNNRISMIQD	RAFGLDNLNR	RLYLNGNRIE	RLSPFLFYGL	480
	QSLQVFLQY	NLIREIQSGT	FDPVFNLLQL	FLNNLLQAM	PSGVFSGTLR	LRLNLRSHNF	540
	TSLPVSGVLD	QLKSLIQIDL	HDNPDWCTCD	IVGMKLWVEQ	LKVGVLVDEV	ICKAPKKFAE	600
30	TDMRSIKSEL	LCPDYSDVVV	STPTPSSIQV	PARTSAVTPA	VRNSTGAPA	SLGAGGASS	660
	VPLSVLILSL	LLVFMVSFV	AAGLFVLVMK	RRKNQSDHT	STNNSDVSSF	NMQYSVYGGG	720
	GGTGHPHIAH	VHHRGPAALP	VKTAPGHVYE	YIPEPLGHMC	KNPIYRSREG	NSVEDYKDLH	780
	ELKVITYSSNH	HLQQQQQPPP	PPQQPPQQPP	PQLQLQPGEE	ERRESHHLRS	PAYSVSTIEP	840
	REDLLSPVQD	ADRFYRGILE	PDKHCSTTPA	GNSLPEYPKF	PCSAPAYTFS	PNVDLRPHQ	900
35	YLHPGAGDSR	LREPVLISPP	SAVFEPEPRN	EYELKAKLIN	VEPDYLEVLE	KQTFPSQF	958

Seq ID NO: C406 Protein Sequence
Protein Accession #: NP_000784.2

1	11	21	31	41	51		
40	MGILSVDLII	TLQILPVFFS	NCLFLALYDS	VILLKHVVLL	LSRSKSTRGB	WRRMLTSEGL	60
	RCVWKSFLLD	AYKQVKLGED	APNSSVVHVS	STEGDNGSN	GTQEKIAEGA	TCHLLDFASP	120
	ERPLVNVGGS	ATUPPFTSQL	PAFRKLVEEF	SSVADFLVY	IDBAHPSDGM	AIPGSSLSF	180
45	EVKKHQNQED	RCAAAQQLLE	RFSLPPQCRV	VADRMNDNAN	IAYGVAFERV	CIVQRQKIAY	240
	LGGKGFPSYN	LQEVREHLEK	NFSRRUKTR	LAG			273

Seq ID NO: C407 Protein Sequence
Protein Accession #: NP_006540.2

1	11	21	31	41	51		
50	MSSCVSSQSS	SNRAAPQDEL	GGRGSSSSSES	QKPCEALRGL	SSLSIHLGME	SFIVVTECEP	60
	GCAVDLGLAR	DRPLEADQGE	VPLDSSQSQA	RPHLSGRKLS	LQERSQGGLA	AGGSLDMNGR	120
55	CICPSLPYSP	VSSPQSSPRL	PRRPTVESHH	VSITGMQDCV	QLNQYTLKDE	IGKGSYGVVK	180
	LAYNENDNTY	YAMKVLSSKK	LIRQAGFPRR	PPPRGTRPAP	GGCIQPRGPI	EQVYQEIAIL	240
	KKLDHNPVVK	LVEVLDDPNE	DHLYMVVELV	NQGFVMEVPT	LKPLSEDAQAR	FYFQDLIKGI	300
	EYLHYQKIIH	RDIKPSNLLV	GEDGHIKIAD	FGVSNFVKGS	DALLSNTVGT	PAFMAPESLS	360
	ETRKIFSGKA	LDVWAMGVTL	YCFVFGQCP	MDERIMCLHS	KIKSQALEFP	DQPDIAEDLK	420
60	DLITRMLDRN	PESRIVVPEI	KLHPWVTRHG	AEPLPSEDEN	CTLVEVTEEB	VENSVKHIPS	480
	LATVILVKTM	IRKRSFGNPF	EGSRREERSL	SAPGNLLTKK	PTRECESLSE	LKEARQRROP	540
	EGHRPAPRGG	GGSAIVRGSP	CVESCWAPAP	GSPARMHPLR	PEEAMEPE		588

Seq ID NO: C408 Protein Sequence
Protein Accession #: NP_061116.2

1	11	21	31	41	51		
70	MGLSLPKEKG	LILCLWSKFC	RWFQRRSWA	QSRDEQNLLQ	QKRIWESPLL	LAARDNDVQA	60
	LNLKLLKYEDC	KVHQRGAMGE	TALHIAALYD	NLEAAMVLME	AAPELVFEPH	TSLEYEGQTA	120
	LHIAVNVQNM	NLVRALLARR	ASVSARATGT	AFRRSPCNLI	YPGEHPLSFA	ACVNSEBIVR	180
	LLIEHGADIR	AQDSLGNTVL	HILILQPNKT	FACQMYNLLL	SYDRHGDLQ	PLDLVPNHQG	240
	LTPFKLAGVE	GNTVMFOHLM	QKRKHTQWTY	GPLTSTLYDL	TEIDSSGDEQ	SLLELIITTK	300
	KREARQILQ	TPVKELVSLK	WKRYGRPYFC	MLGAIYLLYI	ICFTMCCYIR	PLKPTNNRNT	360
	SPRNTLLQQ	KLLQEAymTP	KDDIRLVGEL	VTVIGAILIL	LVEVPDIFRM	GVTFRFGQTI	420
75	LGSPFHVLI	TYAFMVLMTM	VMRLISASGE	VVPMSPALVL	GWCNVMYPAR	GFQMLGPFIT	480
	MIQKMFGLD	MRFCWLMMAV	ILGFASAFYI	IFQTEDPEEL	GHPYDYPMAL	PSTFELFLTI	540
	IDGPANYNDV	LPMYSITYA	AFATIAITLLM	LNLLIAMMGD	THWRVAHERD	ELWRAQIVAT	600
	TVMLERKLPR	CLWPRSGICG	REYGLGDRWF	LRVEDRQDLN	RQRIQRYAQA	FHTRGSEDL	660
80	KDSVEKLELG	CPFSPHLSLP	MPSVSRSTSR	SSANWERLRQ	GTLRRDLRGI	INRGLEDGES	720
	WEYQI						725

Seq ID NO: C409 Protein Sequence
Protein Accession #: NP_068710.1

1 11 21 31 41 51
 1 MQKVTILGLLV FLAGFPVLDA NDLEDKNSPF YYDWHSLQVG GLICAGVLCA MGIIIVMSEW 60
 5 RSSGEQAGRG WGSPPPLTTQL SPTGAKCKCK FGQKSGHHPG ETPPLITPGS AQS 113

Seq ID NO: C410 Protein Sequence
 Protein Accession #: NP_005962.1

1 11 21 31 41 51
 10 1 MQKVTILGLLV FLAGFPVLDA NDLEDKNSPF YYDWHSLQVG GLICAGVLCA MGIIIVMSAK 60
 CKCKFGQKSG HHPGETPPLI TPGSAQS 87

Seq ID NO: C411 Protein Sequence
 Protein Accession #: NP_004952.1

1 11 21 31 41 51
 20 1 MLKVLPLVLL GILLILQSRV EGPQTESKNE ASSRDVVYGP QPQPLENQLL SEETKSTETE 60
 TGSRVGKLPE ASRLINTILS NYDHLKLRPGI GEKPTVVTV E IAVNSLGPLS ILDMETITDI 120
 IFSQTYWDER LCYNDTFESL VLNQNVVSQL WIPDTFFRNS KRTEHEITM PNQMVRIYKD 180
 GKVLTYTIRMT IDAGCSLHML RFPMDSHSCP LSFSSFSYPE NEMIYKWNF KLEINEKNSW 240
 KLFQFDTGV SNKTEIITTP VGDFMVTIF FNVSRFFGYV AFQNYVPSV TMLSWVSFW 300
 25 1 IKTESAPART SLGITSVLTM TTLGTFSRKN PPRVSYITAL DFYIAICPVF CFCALLEFAV 360
 LNFLIYNQTK AHASPKLRHP RINSRAHART RARSACARQ HQEAFVQIV TTEGSDGEER 420
 PSCSAQQPPS PGSPGPRSL CSKLACCEWC KRFKYFCMV PDCGEGTWQQ GRLCIHVYRL 480
 DNYSRVVFV TFFFFNVLYW LVCLNL 506

Seq ID NO: C412 Protein Sequence
 Protein Accession #: NP_068819.1

1 11 21 31 41 51
 35 1 MEYTIIDIFS QTWYDERLCY NDTFESLVLN GNVVSQLWIP DTFFRNSKRT HEHEITMPNQ 60
 MVRIYKDGKV LYTIRMTIDA GCSLHMLRFP MDSHSCPLSF SSFSYPENEM IYKWNFKLE 120
 INEKNWKLQ QLDFTGVSNNK TEIITTPVGD FMVMTIFFNV SRRFGYVAFQ NYVPSSVTIM 180
 LSWVFWIKT ESAPARTSLG ITSVLMTTL GTFSRKNFPR VSYITALDFY IACFVFCFC 240
 ALLEFAVLNF LIYNQTKAHA SPKLRHPRIN SRAHARTRAR SRACARQHQE AFVQCIIVTE 300
 40 1 GSDGEERPSC SAQPPSPGS PEGPRSLCSK LACCEWCKRF KKYFCMVDC EGSTWQQARL 360
 CIHVYRLDNY SRVVPVTF FNVLYWLVC LNL 393

Seq ID NO: C413 Protein Sequence
 Protein Accession #: NP_068822.1

1 11 21 31 41 51
 45 1 MEYTIIDIFS QTWNSKRTH HEITMPNQMV RIYKDGKVLV TIRMTIDAGC SLHMLRFPMD 60
 SHSCPLSPSS FSYPENEM IYKWNFKLEIN EKNSWKLQF DFTGVNKT E IITTPVGD 120
 50 1 VMTIFFNVSR RFGYVAFQNY VPSSVTIMLS WVSFWIKTES APARTSLGIT SVLMTITLGT 180
 FSRKNFPRVS YITALDFYIA ICFVFCFAL LEPAVLNFI YNQTKAHASP KLRHPRINSR 240
 AHARTRARS ACARQHQEAF VCQIVTTEGS DGEERPSCSA QPPSPGSPE GPRSLCSKLA 300
 CCEWCKRFKK YFCMVDCG STWQQGRLCI HVYRLDNYSR VVFTVTF F NVLYWLVC 360
 L 361

Seq ID NO: C414 Protein Sequence
 Protein Accession #: NP_068830.1

1 11 21 31 41 51
 60 1 MEYTIIDIFS QTWYDERLCY NDTFESLVLN GNVVSQLWIP DTFFRNSKRT HEHEITMPNQ 60
 MVRIYKDGKV LYTIRMTIDA GCSLHMLRFP MDSHSCPLSF SSFSYPENEM IYKWNFKLE 120
 INEKNWKLQ QLDFTGVSNNK TEIITTPVGD FMVMTIFFNV SRRFGYVAFQ NYVPSSVTIM 180
 LSWVFWIKT ESAPARTSLG ITSVLMTTL GTFSRKNFPR VSYITALDFY IACFVFCFC 240
 65 1 ALLEFAVLNF LIYNQTKAHA SPKLRHPRIN SRAHARTRAR SRACARQHQE AFVQCIIVTE 300
 GSDGEERPSC SAQPPSPGS PEGPRSLCSK LACCEWCKRF KKYFCMVDC EGSTWQQGRL 360
 CIHVYRLDNY SRVVPVTF FNVLYWLVC LNL 393

Seq ID NO: C415 Protein Sequence
 Protein Accession #: NP_068591.1

1 11 21 31 41 51
 70 1 MPAVSGPGPL FCLLLLLLDP HSPETGCPPL RRFYKLSFK GPRALPGAG IPFWSHHGDA 60
 ILGLEEVRLT PSMNRSGAV WSRASVPFSA WEVEVQMRVT GLGRRGAHGM AVWYTRGRGH 120
 75 1 VGSVLGLLAS WDGIGIFPDS PAEDTQDSPA IRVLASDGI PSEQPGDGAS QGLGSCWDF 180
 RNRFPFRAR ITYWGQLRM SLNSGLTPSD PGFPCVDVGP LLLVGGFFG VSAATGTLAD 240
 DHDVLSFLT F SLSEPSPEVP POPFLEMQL RLAQLQLEGL ARLGLGTRED VTPKSDSEAO 300
 GEGRLFDLE ETLGRHRRIL QALRGLSKQL AQAEQWKKQ LGPPQARPD GGWALDASCO 360
 80 1 IPSTPGRGCH LSMSLNKD SA KVGALLHQW TLLQALQEMR DAAVRMAAEA QVSYLPVIGIE 420
 HHFLDLHL GLQLELRGP AKAAKAPRP PQQPPRASSC LQPGIFLFYL LIQTGVFFGY 480
 VHFQELNKS LQECSTGSL PLGPAPHTPR ALGILRRQPL PASMPA 526

Seq ID NO: C416 Protein Sequence
 Protein Accession #: XP_117036.1

1 11 21 31 41 51
 5 MERRTRGALG SRRPPPLPA LRHLCTGLQA AGMAWPGTLW RHTCQGRAXA AEGPWGLFRP 60
 HRCPREAGQA PVGSPETQG VAHVCSRARV SVDEREPGGG AYAMHVTPRW KGCHRHSGRT 120
 VRGSVSKRP EQAAPETGRG PAVARGSGDG NECGWG 156

Seq ID NO: C417 Protein Sequence
 Protein Accession #: XP_167803.2

1 11 21 31 41 51
 10 MPKGQRKTA TNKPGGLPGA PGVGIGGHCL YVLECKCFIK NKTTHHHKK KNFAAKRNEE 60
 15 KKKKKKQEK KNHTKFFHHT YPLSQDFLF AKSYFCNGP CFLWQGLF 108

Seq ID NO: C418 Protein Sequence
 Protein Accession #: NP_079056.1

1 11 21 31 41 51
 20 MFRLVERYEM PRHEVYVLLI RNIFLKISII GILCYWLT VALSGEECWE TLIGQDIYRL 60
 LLMDVFVSLV NSFIDGEFLRR IIGMQLITSL GLQEFDIARN VLELIYAQTL VWIGIFFCPL 120
 LPPIQMIMLF IMFYSKNISL MMNFQPPSKA WRASQMMTF IFLLFFPSPT GVLCTLAITI 180
 25 WRLLKPSADCG PFRGLPLFIH SIYSWIDTSL TRPGYLWVWV IYRNLIQSVH FFFILTLIVL 240
 IITYLYWQIT EGRKIMIRLL HEQIINEGKD KMFLIEKLIK LQDMEKKANP SSLVLERREV 300
 EQQGFLLHGE HDGSLDLRSR RSVQEGNPRA 330

Seq ID NO: C419 Protein Sequence
 Protein Accession #: Eos sequence

1 11 21 31 41 51
 30 MLSDDHVNEI IIQVENVSSG VQSHPPSNQI FQEKVLLDSS INMVLISIDI DVIDSQTVSK 60
 RNDQKGNQVL RSTSLNESM SQTLSLECM GIDTPGSSHE TVQGQKLIAS LIEMTSRDRI 120
 35 KAIRNQPRTM EEKRNLRKIV DKEKSKQTHR ILQLNCCIQC LNSISRAYRR SKNSLSEILN 180
 SISLWQKTLK IIGKFGTSTV LSYFNFLRWL LKFNIFSPIL NFSFIIIPQF TVAKNNTLQF 240
 TGLEFFFTGVG YFRDVTMYG FYTNSTIQHG NSGASYNMQL AYIPTIGACL TTCFFSLIFS 300
 MAKYFRNFI NPHIYSGGIT KLIFCWDFTV THEKAVKLKQ KNLSTEIREN LSELQENSK 360
 40 LTFNQLLTFR SAYMVAVVVS TGVAIACCAA VYLAENLE FLKTHSNPGA VLLLFPVWSC 420
 INLAVPCIYS MFRLVERYEM PRHEVYVLLI RNIFLKISII GILCYWLT VALSGEECWE 480
 TLIGQDIYRL LLMDVFVSLV NSFIDGEFLRR IIGMQLITSL GLQEFDIARN VLELIYAQTL 540
 VWIGIFFCPL LPPIQMIMLF IMFYSKNISL MMNFQPPSKA WRASQMMTF IFLLFFPSPT 600
 GVLCTLAITI WRLLKPSADCG PFRGLPLFIH SIYSWIDTSL TRPGYLWVWV IYRNLIQSVH 660
 45 FFFILTLIVL IITYLYWQIT EGRKIMIRLL HEQIINEGKD KMFLIEKLIK LQDMEKKANP 720
 SSLVLERREV EQQGFLLHGE HDGSLDLRSR RSVQEGNPRA 760

Seq ID NO: C420 Protein Sequence
 Protein Accession #: NP_002241.1

1 11 21 31 41 51
 50 MGGDLVLGLG ALRRRKRLLE QEKSLAGWAL VLAGTGIGLM VLHAEMLWFG GCSWALYLF 60
 VKCTISITF LLLCLIVAFH AKEVQLFMTD NGLRDWRVAL TGRQAAQIVL ELVVCGLHPA 120
 PVRGPPCQVD LGAPITSPQ WPGFLGQGEA LLSLAMLRL YLVPRVALLR SGVLLNASYR 180
 55 SIGALNQVRV RHWFAKLYM NTHPGRLLG LTLGLMLTTA WVLSVAERQA VNATGHLSDT 240
 LNLIPITFLT IGYGDVPGT MMGKIVCLCT GVMGVCCAL LVAVVARKLE FNKAKEHVHN 300
 FMMDIQYTKK MKESARVLQ EAMFYKHTR RKESHAARRH QRKLLAAINA PRQVRLKHRK 360
 LREQVNSMVD ISKMHMILYD LQNLSSSHR ALEKQIDTLA GKLDALTELL STALGPRQLP 420
 60 BPSQSK 427

Seq ID NO: C421 Protein Sequence
 Protein Accession #: NP_079533.1

1 11 21 31 41 51
 65 MGGKQRDEDD EAYGKPVKYD PSFRGPIKNR SCTDVICCVL FLLFILGYIV VGIVAWLYGD 60
 PRQVLYPRNS TGAYCGMGEN KDKPYLLYFN IPSCILSSNI ISVAENGLQC PTPQVCVSSC 120
 PEDPWTVGKN EFSQTVEVF YTKNRNFCPL GVPWNMTIVT SLQQLCPSPF LLPSAPALGR 180
 70 CFPWNTITPP ALPGITNDIT IQQGISGLID SLNARDISVK IPEDFAQSWY WILVALGVAL 240
 VLSLLFILL RLAVAGPLVLV LILGVLGVLA YGIYCWEEY RVLDRKGASI SQLGFTTNLS 300
 AYQSVQETWL AALIVLAVLE AILLVLIFL RQRIRIAIAL LKEASKAVGQ MMSTMFYPLV 360
 TFLVLLICIA YWAMTALYPL PTQPATLGYV LWASNISSPG CEKVPINTSC NPTAHLVNSS 420
 CPGLMCVFQG YSSKGLIQRS VFNLQIYGV LFWTLNWWL ALGQCVLAGA FASFYWAFHK 480
 75 PQDIPTFPLI SAFIRTLRYH TGSALFAGALI LTLVQIARVI LEYIDHKLGR VQNPVARCIM 540
 CCFKCLWCL EKFIKFLNRN AYIMIAIYK NFCVSAKNAP MLLMRNIVRV VVLDKVTDLL 600
 LPFGKLLVVG GVGVLSPFFP SGRIPLGLKD FKSPHLIYYW LPINTSILGA YVIASGFFSV 660
 FGMCDVTLFL CFLEDLERIN GSLDRPYYS KSLKILGKK NEAPPDNKKR KK 712

Seq ID NO: C422 Protein Sequence
 Protein Accession #: NP_057264.1

1 11 21 31 41 51
 80 MGSNSGQAGR HIYKSLADG PFDSVEPPKR PTLRLIMHSM AMFGREFCYA VEAAYVTPVL 60

5 LSVGLPSSLY SIVWFLSPIL GFLLPVVGVS ASDHCRSRWG RRRPYILTLG VMMLVGMALY 120
 LMGATVVAAL IANPRRLVW AISVTMIGVV LFDFAADFID GPIKAYLFDV CSHQDKKGL 180
 HYHALFTGFG GALGYLLGAI DWAHLELGRL LGTEFQVMFF FSALVLTLCF TVHLCSISEA 240
 PLTEVAKGIP PQOTPDPPPL SSDGMYEYGS IEKVNGYVN PELAMQGAKN KNHAEQTRRA 300
 MTLKSLRAL VMMPHYRYL CISHLIGWTA FLSNMLFFTD FMQIVYRGD PYSAHNSTEF 360
 LIYERGVEVG CWGFCINSVF SLSYSYFQKV LVSYIGLKGL YFTQYLLFGL GTGFIGLFPN 420
 VYSTLVLCSL FGVMSSTLYT VPENLITEYH REBEKERQQA PGGDPDNSVR KGKMDCATLT 480
 CMVQLAQLILV GGLGLFLVNT AGTVVVVVIT ASAVALIGCC FVALFVRYVD 530

10 Seq ID NO: C423 Protein Sequence
 Protein Accession #: NP_003264.1

15 1 11 21 31 41 51
 MEFGGVGGR GTRGPAAGV WRGRAEEGPV LGAAERCFMV STGSRRRVFE GPGGGGLRMT 60
 PGKGTGRQG AWGPRAEDGV RRRTLGMPRG SRRDVRAPCG PAGSWGARGG RRRDGPSSRR 120
 RGSATAARH HVPFAPGGFF GPRAPAGSTR VPARAGGAVE PTGAAAVARL ARPAGGALPT 180
 AGAQAAGPAR GRSGEGSEWA RRGKGRPGPY QSLGPAVAE QOELKDKSRL RYPINGFQAL 240
 20 VLTALLVGLG MSAGLPIGAL PEMLLPLAFV ATLTAFIFSL FLYMKAQVAP VSALAPGGNS 300
 GNPFIYDFLG RELNPRICFF DFKYFCELRP GLIGWVLINL ALLMKEAELR GSPSLAMMLV 360
 NGFQLLYVGD ALWHEAVLT TMDITHDGFQ FMLAFGDMAN VPFTYSLQQA FLHLHPQPLG 420
 LPMASVICLI NATGYIYFRG ANSQKNTFRK NPSDPVAVL ETISTATGRK LLVSGWGMV 480
 RHNYLGLDLI MALAWSLPCG VSHLLPYFYL LYPTALLVHR EARDERSACR STAWPGRSTA 540
 25 GVCLTASCTP STEAAPPPQV GHVPTHPPAR PGPGASTHLG LKGLHPTQP 589

Seq ID NO: C424 Protein Sequence
 Protein Accession #: NP_056535.1

30 1 11 21 31 41 51
 MGRLLRAARL PLLSPLLLL LVGGAFLGAC VAGSDEGPPE GLTSTSLDL LLPTGLEPLD 60
 SEEPSETMGL GAGLGAFSG FPESENEESR ILQPPQYFWE EEEELNDSSL DLGPTADYVF 120
 PDITEKAGSI EDTSQAGELP NLPSPLPKMN LVEPPWHMPP EEEEEEEEEE EEREKEEVEK 180
 35 QEEEEEEELL PVNGSQBEAK PQVRDFSLTS SSQTGATKS RHEDSGDQAS SGVEVESSMG 240
 PSLLLPSTVP TTVTPGDQDS TSQEAETVL PAAGLGVEFE APQEAASEAT AGAAGLSGQH 300
 EEVPALPSFF QTTAPSGAEH PDEDPLGSRT SASSPLAPGD MELTPSSATL GQEDLNQQLL 360
 EGQAEEAQR IPWDSTQVIC KDWSNLAKGN YIILNMTENI DCEVFRQHRG PQLLALVEEV 420
 LPRHSGSHHG AMHISLSKPS EKEQHLLMTL VGEQGVVPTQ DVLSMLGDIR RSLERIGIQN 480
 40 YSTTSSQAR ASQVRSYDGT LEFVVLVIGA ICIIIALGL LYNCRQRLP KLKHVSHGEE 540
 LRFVENGCHD NPTLDVASDS QSEMQEHPHS LGGGALNGP GSWGALMGK RDPEDSDVFE 600
 EDTHL 605

Seq ID NO: C425 Protein Sequence
 Protein Accession #: NP_001188.1

45 1 11 21 31 41 51
 MSEVRPLSRD ILMETILLYEQ LLEPPTMEVL GMTDSEKOLD PMEDFDSLEC MEGSDALALR 60
 LACIGDEMVD SLRAPRLAQL SEVAMHSGL APIYDQTEI RDVLRSPMDG FTTLKENIMR 120
 50 PWRSEFNGSW VSCQVLLAL LLLLALLPL LSGGLHLLK 160

Seq ID NO: C426 Protein Sequence
 Protein Accession #: AAF76225.1

55 1 11 21 31 41 51
 MATPLPPSP RHLRLRLLL SGLVLGAALR GAAAGHPDVA ACPGSLDCAL KRRARCPGA 60
 HACGCLQPF QEDQGLCVF RMRRPPGGGR PQRLEDEID FLAQELARKE SGQSTPPLPK 120
 DRQRLPEPAT LGFSARGQGL ELGLPSTPGT FTTPTHTSLG SPVSSDPVHM SPLEPRGGQG 180
 60 DGLALVLILA FCVAGAAALS VASLCWCRLQ REIRLTQKAD YATAKAPGSP AAPRISPGDQ 240
 RLAQSAEMYH YQHQRQMLC LERHKEPPKE LDTASSDEEN EDGDFTVYEC PGLAPTGE 300
 VRNPLFDHAA LSAPLPAPSS PPALP 325

65 Seq ID NO: C427 Protein Sequence
 Protein Accession #: NP_004436.1

70 1 11 21 31 41 51
 MVCSLWVLL VSSVLALAEV LDDTTGETSE IGWLTYPGG NDEVSVLDDQ RRLTRTFEAC 60
 HVAGAPPGTG QDNWLQTHFV ERRGAQRAHI RLHFSVRACS SLGVSGGTCR ETFTLYYRQA 120
 EEPDSPDSVS SWHLKRWTKV DTIAADESFP SSSSSSSSSS SAAWAVGPHG AQQRAGLQLN 180
 VKERSFGPLT QRGFYVAFQD TGACIALVAV RLFSYTCPAV LRSFASFPET QASGAGGASL 240
 65 VAAVGTCAVH AEPEEDGVGG QAGGSPRLH CNGEGKMWVA VGGCRCPGY QPARGDKACQ 300
 ACPRGLYKSS AGNAPCSPCP ARSHAPNPAA PVCPCLEGGY RASGDPPEAP CTGPFSAPQE 360
 LWFVEQGASL MLHWRLPREL GGRGDLFNV VCKECEGRQE PASGGGGTCH RCRDEVHFD 420
 75 QRGLTESRV LVGGLRAHVP YILEVQAVNG VSELSPDPQ AAAINVSTSH EVPSAVPVVH 480
 QVSRASNSIT VSNPQPDQTN GNILDYQLRY YDQAEDESHS FTLTSETNTA TVTQLSPGHI 540
 YGFQVARTAR AGHGYPYGGK YFQTLPGEL SSQLEPRLSL VIGSILGALA FLLLAITVL 600
 AVVFQRRRG TGYTEQLQY SSPGLGVKYY IDPSTYEDPC QAIRELAREV DPAYIKIEEV 660
 80 IGTGSPGEVR QGRLQPRGR BQTVAIQALW AGGAESLQMT FLGRAAVLGQ FOHPNILRLE 720
 GVTKSRPLM VLTEFMELGP LDSFLRQREG QFSSLQLVAM QRGVAAAMQY LSSPAFVHRS 780
 LSASVLVNS HLCKVARLG HSPQGPSCLL RWAAPVIAH GKHTTSSDVV SPGILMWEVM 840
 SYGERPYWDM SEQEVLNIE QEFRLPPPG CPGHLHLLM DTWQDRARR PHFDQLVAAF 900
 DKMIRKPTDL QAGGDPGERP SQALLTPVAL DPPCLDSPQA WLSAIGLECY QDNFQKFLC 960

TFSDVAQLSL EDLPALGITL AGHQKLLHH IQLLQHLRQ QGSVEV

1006

Seq ID NO: C428 Protein Sequence
Protein Accession #: XP_043340.2

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1	11	21	31	41	51	
MPFDFFRRFDI	YRKVPKDLTQ	PTYTGAIISI	CCCLFILFLF	LSELTGFITT	EVVNELYVDD	60
PDKDSGGKID	VSLNLSLPNL	HCELVGLDIQ	DEMGRHEVGH	IDNSMKIPLN	NGAGCRFEGQ	120
FSINKVPGNF	HVSTHSATAQ	PQNPDMTHVI	HKLSFGDTLQ	VQNIHGAFNA	LGGADRLTSN	180
PLASHDYILK	IVPTVYEDKS	GKQRYSYQYT	VANKEYVAYS	HTGRIIPAIW	FRYDLSPITV	240
KYTERRQPLY	RPITTICAI	GGTFTVAGIL	DSCIFTASEA	WKIKQLGKMH		290

Seq ID NO: C429 Protein Sequence
Protein Accession #: NP_002142.1

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1	11	21	31	41	51	
MAQKEGGRTV	PCCSRPKVAA	LTAGTLLLLT	AIGAASWAIW	AVLLRSDQEP	LYPVQVSSAD	60
ARLMVFDKTE	GTWRLLCSSR	SNARVAGLSC	BEMGFLRALT	HSELDVRTAG	ANGTSGPFCV	120
DEGRLPHTQR	LLEVISVCDQ	PRGRFLAAIC	QDCGRRKLFP	DRIVGGRDTS	LGRWPWQVSL	180
RYDGAHLCCG	SLLSGDWVLT	AAHCFPERNR	VLSRWRVFAG	AVAQASPHGL	QLGVQAVVYH	240
GGYLPFRDNN	SEENSNDIAL	VHLSSPLPLT	EYIQPVCLPA	AGQALVDGKI	CTVTGWGNTQ	300
YYQQAGVLQ	EARVPIISND	VCNGADFYGN	QIKPKMFCAG	YPEGGIDACQ	GDSGGPFVCE	360
DSISRTPRWR	LCGIVSWGTV	CALAQKPGVY	TKVSDFREWI	FQAIKTHSEA	SGMVTQL	417

Seq ID NO: C430 Protein Sequence
Protein Accession #: BAA92562.1

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1	11	21	31	41	51	
METIVLSGIN	PEYKGMTGWE	VAGDHIYTAA	GASDNDPMIL	TLVVPGRFP	QSVMAITENK	60
EVARITVFVE	TLCSVNCELY	FMVGVSRTN	TPVETWKGSK	GKQSYTYIIE	ENITTSFTWA	120
FQRTTFHEAS	RKYNDVAKI	YSINVTNVMN	GVASYCRPCA	LEASDVGSSC	TSCPAGYIID	180
RDSGTCHSCP	PNTILKAHP	YGVQACVPCG	PGTKNNKIHS	LCYNDCTFSR	NTPTRTFNYN	240
FSALANTVTL	AGGSPFTSKG	LKYPHHFTLS	LCGNQGRKMS	VCTDNVTDLR	IPEGESGFSK	300
SITAYVCQAV	IIPPEVTGYK	AGVSSQPVSL	ADRLIGVTTD	MTLDGITSFA	ELFHLESLSI	360
PDVIFFRYSN	DVTQSCSSGR	STTIKVRCSF	QKTVPGSLLL	PGTCSGDTCD	GCMFHLWES	420
AAACPLCSVA	DYHAIVSSCV	AGIQKTTYVW	REPKLCSGGI	SLPEQRVTIC	KTIDFWLVKG	480
ISAGTCTAIL	LTVLTCTFWK	KNQKLEYKYS	KLVMNATLKD	CDLPAADSCA	IMEGEDVEDD	540
LIFTSKKSFL	GRIKSFTSKQ	PAPVTISLSE	DS			572

Seq ID NO: C431 Protein Sequence
Protein Accession #: NP_004855.1

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1	11	21	31	41	51	
MPGQELRTVN	GSQMLLVLLV	LSWLPHGGA	SLAASRASFP	PGPSELHSED	SRFRELRKRY	60
EDLLTRLRAN	QSWEDSNIDL	VPAPAVRILT	FEVRLGSGGH	LHLRIGRAAL	PEGLPEASRL	120
HRALFRLSPT	ASRSWVTRP	LRRQLSLARP	QAPALHLRLS	PPPSQSDQLL	AESSSARPQL	180
ELHLRPQAR	GRRRARARNG	DDCPLGPGRC	CRLHTVRASL	EDLGWADWVL	SPREVQVTMC	240
IGACPSQFRA	ANMHAQIKTS	LHRLKPDTEP	APCCVPASYN	PMVLIQKTD	GVSLQTYDDL	300
LAKOCHCI						308

Seq ID NO: C433 Protein Sequence
Protein Accession #: NP_443090.1

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1	11	21	31	41	51	
MEDPSGAREP	RARPRERDPG	RRPHPDQGR	HDRPRDRPGD	PRRKSSDGN	RRRDGDRDPK	60
RDQERDGNRD	RNRDRERERE	RERDPDRGPR	RDTHRDAGPR	AGEHGVWEKP	RQSRTRDGR	120
GLTWDAAP	GPAPWEAPEP	PQPQRKGDGP	RRRPESEPPS	ERYLPSTPRP	GREVEYYQS	180
EAEGLLECHK	CKVLCGTGRAC	QOMLEVLLNL	LILACSSVSY	SSTGGYTGIT	SLGGIYYQF	240
GGAYSGFDGA	DGEKAQQLDV	QFYQLKLPV	TVAMACSGAL	TALCCLFVAM	GVLRVPWECF	300
LLLVTEGLLD	MLIAGGYIPA	LYFYFHYLSA	AYGSPVCKER	QALYQSKGYS	GFGCSFPHGAD	360
IGAGIFAALG	IVVFALGAVL	AIKGYRKVRK	LKEKPAEMFE	F		401

Seq ID NO: C435 Protein Sequence
Protein Accession #: Eos sequence

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1	11	21	31	41	51	
MGAAGRQDFL	EKAMLTISWL	TLTCFPGATS	TVAAGCPDQS	PELQPNWPGH	DQDHHVHIGQ	60
GKTLTLLTSSA	TVYSIHISEG	GKLVIKDHDE	PIVLRTRHIL	IDNGGELHAG	SALCPFQGNF	120
TIILYGRADE	GIQPDPPYGL	KYIGVGKGA	LELHGQKKLS	WTFLNKTLHP	GGMAEGGYFF	180
ERSWGRHGVY	VHVIDPKSGT	VIHSDRFDTY	RSKKESERLV	QYLNAPDGR	ILSVAVNDEG	240
SRNLDMARK	AMTKLGSKEF	LHLGFRHPWS	FLTVKGNPSS	SVEDHIEYHG	HRGSAARVF	300
KLPQTEHGEY	FNVLSRSENV	QDVWETWFD	HDKVSQTKGG	EKISDLWKAH	PGKICNRPID	360
IQATTMDGVN	LSTEVVYKKG	QDYRFACYDR	GRACRSYVR	FLCGKPVPRK	LTVTIDTNVN	420
STILNLEDNV	QSNKPGDTLV	IATDYSMYQ	AEEFQVLPGR	SCAPNQVKVA	GKPMYLHIGE	480
EIDGVDMRAE	VGLLSRNIIV	MGEMEDKCYF	YRNHICNFFD	PDTFGGHIKF	ALGFKAHLE	540
GTSLKHMGOQ	LVGOYPIHFH	LAGDVDERGG	YDPTTYIRDL	SIHHTFSRCV	TVHGSNGLLI	600
KDVVGYNLSG	HCFPTEDGPE	ERNTFDHCLG	LLVKSGLTLLP	SDRDSKMCKM	ITEDSYPGYI	660
PKPRQDCNAV	STFWMANPNN	NLINCAAAGS	EETGFWFIFH	HVPTGPSVGM	YSPGYSEHIP	720

LGKFYNNRAH	SNYRAGMIID	NGVKTTEASA	KDKRPFLSI	SARYSPHQDA	DPLKPREPAI	780
IRHFIAYKNQ	DHGAWLRGGD	VWLDSCHFRG	EAQEGFLLTG	MKAGGILLGG	DEAASGMAQG	840
FSPPCRCLLK	LVTGSPFAH	VSLAHS				866

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It is understood that the examples described above in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All publications, sequences of accession numbers, and patent applications cited in this specification are herein
5 incorporated by reference as if each individual publication, accession number, or patent application were specifically and individually indicated to be incorporated by reference.

WHAT IS CLAIMED IS:

1 1. A method for determining the presence or absence of a pathological cell in a
2 patient, said method comprising detecting a nucleic acid comprising a sequence at least 80%
3 identical to a sequence as described in Tables 2A-80 in a biological sample from said patient,
4 thereby determining the presence or absence of said pathological cell.

1 2. The method of Claim 1, wherein:
2 a) said pathology is described in Table 1, including a cancer; and/or
3 b) said biological sample comprises isolated nucleic acids.

1 3. The method of Claim 1, wherein said biological sample is tissue from an organ
2 which is affected by said pathology of Table 1, including a cancer.

1 4. The method of Claim 2, wherein said nucleic acids are mRNA

1 5. The method of Claim 2:
2 a) further comprising a step of amplifying nucleic acids before said step of detecting
3 said nucleic acid; or
4 b) where said detecting is of a protein encoded by said nucleic acid.

1 6. The method of Claim 1, wherein said nucleic acid comprises a sequence as
2 described in Tables 2A-80.

1 7. The method of Claim 2, wherein:
2 a) said detecting step is carried out by:
3 i) using a labeled nucleic acid probe;
4 ii) utilizing a biochip comprising a sequence at least 80% identical to a sequence
5 as described in Tables 2A-80; or
6 iii) detecting a polypeptide encoded by said nucleic acid; or
7 b) said patient is:
8 i) undergoing a therapeutic regimen to treat said pathology of Table 1; or
9 ii) is suspected of having said pathology or cancer.

1 8. An isolated nucleic acid molecule comprising a sequence as described in
2 Tables 2A-80.

- 1 9. The nucleic acid molecule of Claim 8, which is labeled.
- 1 10. An expression vector comprising the nucleic acid of Claim 8.
- 1 11. A host cell comprising the expression vector of Claim 10.
- 1 12. An isolated polypeptide which is encoded by a nucleic acid molecule
2 comprising a sequence as described in Tables 2A-80.
- 1 13. An antibody that specifically binds a polypeptide of Claim 12.
- 1 14. The antibody of Claim 13:
2 a) conjugated to an effector component;
3 b) conjugated to a detectable label, including a fluorescent label, a radioisotope, or a
4 cytotoxic chemical;
5 c) which is an antibody fragment; or
6 d) which is a humanized antibody.
- 1 15. A method for specifically targeting a compound to a pathological cell in a
2 patient, said method comprising administering to said patient an antibody of Claim 13,
3 thereby providing said targeting.
- 1 16. A method for determining the presence or absence of a pathological cell in a
2 patient, said method comprising contacting a biological sample with an antibody of Claim 13.
- 1 17. The method of Claim 16, wherein:
2 a) said antibody is conjugated to:
3 i) an effector component; or
4 ii) a fluorescent label; or
5 b) said biological sample is a blood, serum, urine, or stool sample.
- 1 18. A method for identifying a compound that modulates a pathology-associated
2 polypeptide, said method comprising the steps of:

- 3 a) contacting said compound with a pathology-associated polypeptide, said
4 polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence
5 at least 80% identical to a sequence as described in Tables 2A-80; and
6 b) determining the functional effect of said compound upon said polypeptide.

1 19. A drug screening assay comprising the steps of:

- 2 a) administering a test compound to a mammal having a pathology of Table 1 or a
3 cell isolated therefrom; and
4 b) comparing the level of gene expression of a polynucleotide that selectively
5 hybridizes to a sequence at least 80% identical to a sequence as described in
6 Tables 2A-80 in a treated cell or mammal with the level of gene expression of said
7 polynucleotide in a control cell or mammal, wherein a test compound that
8 modulates said level of expression of the polynucleotide is a candidate for the
9 treatment of said pathology.

10

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 May 2003 (22.05.2003)

PCT

(10) International Publication Number
WO 2003/042661 A3

(51) International Patent Classification?: C12Q 1/68,
C07H 21/02, 21/04

(21) International Application Number:
PCT/US2002/036810

(22) International Filing Date:
13 November 2002 (13.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/350,666	13 November 2001 (13.11.2001)	US
60/332,464	21 November 2001 (21.11.2001)	US
60/334,393	29 November 2001 (29.11.2001)	US
60/335,394	3 December 2001 (03.12.2001)	US
60/340,376	14 December 2001 (14.12.2001)	US
60/347,211	8 January 2002 (08.01.2002)	US
60/347,349	10 January 2002 (10.01.2002)	US
60/355,250	8 February 2002 (08.02.2002)	US
60/356,714	13 February 2002 (13.02.2002)	US
60/359,077	20 February 2002 (20.02.2002)	US
60/368,809	29 March 2002 (29.03.2002)	US
60/370,110	4 April 2002 (04.04.2002)	US
60/372,246	12 April 2002 (12.04.2002)	US
60/386,614	5 June 2002 (05.06.2002)	US
60/396,839	16 July 2002 (16.07.2002)	US
60/397,775	22 July 2002 (22.07.2002)	US
60/397,845	22 July 2002 (22.07.2002)	US
60/409,450	9 September 2002 (09.09.2002)	US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
28 October 2004

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 42/2003 of 16 October 2003, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF DIAGNOSIS OF CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF CANCER

(57) Abstract: Described herein are genes whose expression are up-regulated or down-regulated in specific cancers or other diseases, or are otherwise regulated in disease. Related methods and compositions that can be used for diagnosis, prognosis, and treatment of those medical conditions are disclosed. Also described herein are methods that can be used to identify modulators of these selected conditions.

WO 2003/042661 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/36810

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C07H 21/02, 21/04

US CL : 435/6; 536/23.1, 24.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 536/23.1, 24.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SATO, H. et al., Cloning and Expression of a Plasma Membrane Cystine/Glutamate Exchange Transporter Composed of Two Distinct Proteins, J. Biol. Chem. 23 April 1999, Vol. 247, No. 17, pp. 11455-11458.	1-7
A	KIM, J. Y. et al., Human cystine/glutamate transporter: cDNA cloning and upregulation by oxidative stress in glioma cells, B.B. Acta. June 2001, Vol. 1512, pp. 335-344.	1-7

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

04 August 2004(04.08.2004)

Date of mailing of the international search report

13 SEP 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/36810

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7, SEQ ID NO: 19

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/US02/36810

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-7, drawn to a special technical feature of a method for determining presence or absence of a pathological cell in a patient, said method comprising detecting a nucleic acid comprising a sequence at least 80% identical to a sequence as described in Tables 2A-80 in a biological sample from said patient, thereby determining the presence or absence of said pathological cell.

Group II, claim(s) 8-11, drawn to a special technical feature of an isolated nucleic acid molecule comprising a sequence as described in Tables 2A-80, expression vector comprising the nucleic acid and a host cell comprising the expression vector.

Group III, claim(s) 12, drawn to a special technical feature of an isolated polypeptide which is encoded by an isolated nucleic acid molecule comprising a sequence as described in Tables 2A-80.

Group IV, claim(s) 13, 14, drawn to a special technical feature of an antibody which specifically binds to polypeptide of claim 12.

Group V, claim(s) 15, drawn to a special technical feature of a method for specifically targeting a compound to a pathological cell in a patient, comprising administering to a patient an antibody of claim 13.

Group VI, claim(s) 16, 17, drawn to a special technical feature of a method for determining the presence or absence of a pathological cell in a patient, comprising contacting a biological sample with an antibody of claim 13.

Group VII, claim(s) 18, drawn to a special technical feature of a method for identifying a compound that modulates a pathology-associated polypeptide by contacting the compound with a pathology-associated polypeptide encoded by a polynucleotide which selectively hybridizes to a sequence at least 80% identical to a sequence described in Tables 2A-80 and determining the functional effect of the compound on the polypeptide.

Group VIII, claim(s) 19, drawn to a special technical feature of a drug screening assay comprising the steps of: administering a test compound to a mammal having pathology of Table 1 or a cell isolated therefrom; comparing the level of gene expression of a polynucleotide which selectively hybridizes to a sequence at least 80% identical to a sequence described in Tables 2A-80 in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: claim 8 is anticipated by a sequence with accession No. BE440042 (Table 2A, first entry) (July 25, 2000), therefore there is no contribution of claim 8 over prior art.

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
22 May 2003 (22.05.2003)(10) International Publication Number
PCT
WO 03/042661 A2(51) International Patent Classification⁷: G01N

(21) International Application Number: PCT/US02/36810

(22) International Filing Date:
13 November 2002 (13.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/350,666	13 November 2001 (13.11.2001)	US
60/332,464	21 November 2001 (21.11.2001)	US
60/334,393	29 November 2001 (29.11.2001)	US
60/335,394	3 December 2001 (03.12.2001)	US
60/340,376	14 December 2001 (14.12.2001)	US
60/347,211	8 January 2002 (08.01.2002)	US
60/347,349	10 January 2002 (10.01.2002)	US
60/355,250	8 February 2002 (08.02.2002)	US
60/356,714	13 February 2002 (13.02.2002)	US
60/359,077	20 February 2002 (20.02.2002)	US
60/368,809	29 March 2002 (29.03.2002)	US
60/370,110	4 April 2002 (04.04.2002)	US
60/372,246	12 April 2002 (12.04.2002)	US
60/386,614	5 June 2002 (05.06.2002)	US
60/396,839	16 July 2002 (16.07.2002)	US
60/397,775	22 July 2002 (22.07.2002)	US
60/397,845	22 July 2002 (22.07.2002)	US
60/409,450	9 September 2002 (09.09.2002)	US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

(48) Date of publication of this corrected version:

16 October 2003

(15) Information about Correction:

see PCT Gazette No. 42/2003 of 16 October 2003, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: METHODS OF DIAGNOSIS OF CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF CANCER

(57) Abstract: Described herein are genes whose expression are up-regulated or down-regulated in specific cancers or other diseases, or are otherwise regulated in disease. Related methods and compositions that can be used for diagnosis, prognosis, and treatment of those medical conditions are disclosed. Also described herein are methods that can be used to identify modulators of these selected conditions.



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